









Manchester City  
Report 1908



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*Compliments of*

*James E. Dodge,*

*City Auditor*















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# SIXTY-THIRD ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

135799

OF THE

# CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1908

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING TO  
THE AFFAIRS OF THE CITY



MANCHESTER, N. H.

PRINTED BY THE JOHN B. CLARKE CO.



1909







# MANCHESTER CITY GOVERNMENT, 1908

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## Mayor.

EUGENE E. REED.....Office, City Hall

Chosen at biennial election in November, 1906. Salary, \$3,000 per annum, payable monthly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Chapter 203, Laws of 1907. Public Statutes, chapter 47.)

Mayor's Clerk and Stenographer.—Susie E. Wason, 319 Hanover St.

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## Aldermen.

Ward 1. Ernest W. Wiesner, 19 Market street.

Ward 2. Joseph H. Geisel, 225 Ash street.

Ward 3. Fred O. Parnell, 327 Orange street.

Ward 4. Albert T. Barr, 336 Merrimack street.

Ward 5. Richard J. Barry, 232 Lake avenue.

Ward 6. Andrew B. Bunton, 311 Lake avenue.

Ward 7. Robert Edgar, 70 West Merrimack street.

Ward 8. James E. MacDonald, 154 Mast street.

Ward 9. Gedeon Lariviere, 29 Notre Dame avenue.

Ward 10. John J. Connor, 47 Elm street.

Salary \$3 per meeting, amount not to exceed \$200 annually.

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## Board of Common Council, 1908.

William Parker Straw, President, corner Pleasant and Franklin streets.

Harry W. Spaulding, Clerk, 384 East High street.

### WARD 1.

Louis Swanson, 42 Water street.

Richard J. Barry, 13 Boyden street.

Charles W. Richards, 36 Stark street.



## WARD 2.

John A. Jaquith, 154 Blodget street.  
Harry G. Clough, 102 Bay street.  
Oscar F. Bartlett, 250 Harrison street.

## WARD 3.

Francois V. Manseau, 482 Chestnut street.  
James P. Brown, 462 Pine street.  
Gustaf A. Oberg, 297 Bridge street.

## WARD 4.

Albert J. Precourt, 15 Walnut street.  
Maurice L. Hoitt, 394 Hanover street.  
John W. Finn, 501 Wilson street.

## WARD 5.

James H. Burns, 262 Auburn street.  
Martin T. McHugh, 173 Grove street.  
Joseph P. Kenney, 269 Chestnut street.

## WARD 6.

Edwin A. Dunbar, 148 Massabesic street.  
Edward A. G. Smith, 276 Lake avenue.  
Harry B. Fisher, 752 Grove street.

## WARD 7.

William Parker Straw, corner Pleasant and Franklin streets.  
Herbert A. Salls, 12 West Merrimack street.  
Robert Leggett, 8 West Merrimack street.

## WARD 8.

Frank E. Eisman, 79 Turner street.  
Horace Holbrook, 285 Milford street.  
Gustav F. Wenzel, 154 Second street.

## WARD 9.

Edouard J. Octeau, 568 Main street.  
Charles A. Picard, 25 Rimmon street.  
Patrick J. O'Connell, 334 Main street.

## WARD 10.

John M. Sullivan, R. F. D. No. 5.  
Henry Lang, 176 Hall street.  
Carlos K. Beadle, 1024 Brown avenue.

No salary.

**Clerk of the Common Council.**

Harry W. Spaulding, 384 East High street.

Salary, \$100. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

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**City Clerk.**

Edward C. Smith.....Office, City Hall

Salary, \$1,350 and fees. (Laws, 1899, chapter 6.) Chosen in January, biennially, by board of aldermen. Residence, 900 Union street. Also clerk of all committees of the board of aldermen; salary, \$200.

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**City Clerk's Clerks.**

Eva G. Jones.....City Clerk's Office, City Hall

Eva B. Larivee.....City Clerk's Office, City Hall

Miranda M. Therrien.....City Clerk's Office, City Hall

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**City Auditor.**

James E. Dodge.....Office, City Hall

Salary, \$1,350. Appointed by mayor and approved by board of aldermen in January, biennially. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, River road north.

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**Auditor's Clerk.**

Lizzie M. Cogswell.....Auditor's Office, City Hall

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**City Treasurer.**

Fred L. Allen.....Office, City Hall

Salary, \$1,500. Elected by board of aldermen in January, biennially. (Act of January, 1897, chapter 198.) Residence, 33 Walnut street.



**Treasurer's Clerk.**

Mabel L. How.....Treasurer's Office, City Hall

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**Collector of Taxes.**

George E. Morrill.....Office, City Hall

Salary, \$1,500, and fees. Elected by mayor and aldermen before May 1, biennially. (Act of July, 1851. Act of June, 1859, section 6. Act of 1897, chapter 198. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

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**Deputy Collectors of Taxes.**

Edwin C. Paul.....Collector's Office, City Hall

Abraham S. Rich.....Collector's Office, City Hall

Denis Vigneault.....Collector's Office, City Hall

Salary, \$800. Appointed by tax collector with approval of mayor and aldermen. (City Laws and Ordinances, chapter 33, section 3.)

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**City Solicitor.**

George A. Wagner.....Office, The Beacon

Salary, \$800. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198.) Residence, 332 Orange street.

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**City Messenger.**

James R. Ferson.....Office, City Hall

Salary, \$850. Elected by board of aldermen in January, biennially. (City Laws and Ordinances, chapters 4, 6.)

**Board of Aldermen.**

## STANDING COMMITTEES.

- On Accounts.*—Wiesner, Connor, Bunton.  
*On Bills on Second Reading.*—Barry, Parnell, Edgar.  
*On City Farm.*—MacDonald, Edgar, Lariviere.  
*On Claims.*—Barr, Lariviere, Geisel.  
*On Cemeteries.*—Bunton, Parnell, Edgar, Barr, Wiesner.  
*On Enrollment.*—Wiesner, MacDonald, Geisel.  
*On Finance.*—Mayor, Geisel, MacDonald.  
*On Fire Department.*—Connor, Parnell, Barry.  
*On Lands and Buildings.*—Lariviere, Bunton, MacDonald.  
*On Licenses.*—Barry, Bunton, Connor.  
*On Lighting Streets.*—Geisel, Connor, Barry.  
*On Military Affairs.*—Edgar, Lariviere, Bunton.  
*On Public Health.*—Geisel, MacDonald, Wiesner.  
*On Setting Trees.*—Connor, Parnell, Lariviere.  
*On Sewers and Drains.*—Parnell, Barry, Barr.  
*On Streets.*—Edgar, Wiesner, Barr.

Member first named is chairman of respective committee.

Clerk of Committees (except Committees on Streets, Sewers and Cemeteries), Edward C. Smith. Salary, \$200 annually.

Clerk of Committees on Streets and Sewers, Samuel J. Lord.

**Board of Common Council.**

## STANDING COMMITTEES.

- No. 1. On Central Department, Auditor's, Engineer's, and Department of Taxes.*—Messrs. Jaquith, Salls, Dunbar, Clough, and Smith.  
*No. 2. On Street and Sewer Department.*—Messrs. Precourt, Swanson, Bartlett, Holbrook, and Picard.  
*No. 3. On School Department.*—Messrs. Clough, Burns, Fisher, Beadle, and Straw.  
*No. 4. On Fire Department and Hydrant Service.*—Messrs. Salls, Finn, Wenzel, Sullivan, and Octeau.  
*No. 5. On Public Buildings and Public Places.*—Messrs. Hoitt, Leggett, Dunbar, Brown, and Eisman.  
*No. 6. On Health, Police Department, Public Library, Patriotic, Charitable and Philanthropic Departments.*—Messrs. Brown, Oberg, Kenney, O'Connell, and Barry.  
*No. 7. On Lighting Streets.*—Messrs. Manseau, Richards, Leggett, McHugh, and Lang.

(Member first named is chairman of respective committee.)



### Committee on Finance.

President of the Common Council, Col. William Parker Straw, chairman, *ex officio*, and the chairmen of the different committees named above: Messrs. Jaquith, Precourt, Clough, Salls, Hoitt, Brown, and Manseau.

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### Committee on Enrollment.

Mr. Leggett, chairman, Messrs. Precourt and Dunbar.

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### City Physician.

George L. Bastian, M. D. .... Residence and office, 1087 Elm St.

Salary, \$600. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198. City Ordinances, chapter 9, sections 29, 30.)

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### Chief Engineer.

Samuel J. Lord. .... Office, City Hall

Salary, \$2,200. Chosen by board of aldermen in April, term six years. (Chapter 250, Laws of 1907.)

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#### ENGINEER'S ASSISTANTS.

Harrie M. Young.

Henry A. Worthen.

George M. Wales.

Alfred T. Dodge.

Oliver W. Cushman.

Lawrence O'Connor.

#### STENOGRAPHER.

John J. McAllister, Jr.

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### Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by mayor and aldermen, in the month of September, for a term of six years. Office at court house, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex officio*.

Charles H. Manning, chairman. Term expires January, 1913.

William Corey. Term expires January, 1911.

Edgar J. Knowlton. Term expires January, 1910.

Charles M. Floyd. Term expires January, 1914.

Perry H. Dow. Term expires January, 1909.

Robert E. McKean. Term expires January, 1912.

**Superintendent of Water-Works.**

Charles K. Walker.....Office, Court House, Franklin street

Salary, \$2,400. Chosen by water commissioners annually. Residence, 68 South Main street, West Manchester.

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**Clerk of Water-Works.**

Arthur E. Stearns.....Office, Court House, Franklin street

Salary, \$1,800. Chosen by water commissioners annually.

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**Engineer at Old Pumping Station.**

Jerome J. Lovering. Salary, \$700, rent, fuel, and use of land.

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**Engineer at New Pumping Station.**

C. A. Whitney, \$2.50 per day, rent, and fuel.

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**Justice of the Police Court.**

Isaac L. Heath, court room at police station, corner Manchester and Chestnut streets.

Salary, \$1,500. Appointed by the governor with the advice of the council. (General Laws, chapter 215; chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

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**Associate Justice of the Police Court.**

Harry E. Loveren. Salary, \$300 per annum.

Appointed by the governor with the advice of the council. (Chapter 215, General Laws, section 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

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**Clerk of the Police Court.**

John C. Bickford. Salary, \$600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.



### Police.

The members of the police are appointed by the police commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station at the corner of Chestnut and Manchester streets.

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### Police Commissioners.

See chapter 202, Laws of 1893.

Noah S. Clark, clerk. Term expires January, 1910.

Peter A. Farrell. Term expires January, 1914.

Edward B. Woodbury, chairman. Term expires January, 1912.

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### Chief of Police.

Michael J. Healy.....Office at Police Station

Salary, \$2,000. Residence, 304 Central street. Telephone at house and office.

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### Deputy Chief of Police.

John F. Cassidy.....Office at Police Station

Salary, \$1,500. Residence, 569 Hanover street.

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### Captain of the Watch.

Thomas E. Steele. Salary, \$3.00 per day. Residence, 253 Walnut street.

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### Sergeants.

Peter Callaghan. Salary, \$3.00 per day. Residence, 44 Falls road.

John T. O'Dowd. Salary, \$3.00 per day. Residence, 62 Webster street.

**Inspector.**

Clifton B. Hildreth. Salary, \$3.00 per day. Residence, 386 Walnut street.

**Patrolmen.**

Adler, Leonard J.	McGrath, Matthew F.
Badger, John C.	McQuade, Edward H.
Bean, Randall W.	Moher, William
Benoit, Aurel N.	Moore, Frank P.
Berwin, J. Henry	Moriarty, Mortimer J.
Brown, John G.	O'Malley, John F.
Brown, Thomas F.	Parmenter, Wallace E.
Clement, Louis P.	Pitman, J. Foster
Connor, John J.	Potts, John
Coolidge, Edgar L.	Rainville, Frank
Dunn, James F.	Riorden, George P.
Dustin, Frank J.	Robitaille, Albert C.
Dwyer, R. Emmet	Rourke, Martin W.
Foye, William F.	Russell, Albert
Graf, Oscar J.	Shea, Jeffrey
Hackett, James	Sheehy, Patrick
Hampston, James J.	Smith, John F.
Healy, John D.	Smith, Roswell J.
Howe, John T.	Somers, Elmer E.
Kenney, George H.	Sullivan, Florence
Lavoie, Louis P.	Sweeney, James
Lovejoy, George A.	Tibbetts, Frank E.
Lynch, John J.	Welch, John J.
Marden, Frank W.	Welch, John T.

Whalen, Michael J.

Salary, \$2.60 per day.

**Janitor of Station.**

Frank P. Wiggin. Salary, \$2.00 per day. Residence, 156 Merrimack street.

**Matron.**

Miss A. B. Brown. Salary, \$425 per annum. Residence, 228 Merrimack street.



## School Committee.

Chosen at the biennial election in November, 1906; mayor and president of the common council members, *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the city councils. The salary of the committee is \$10 each.

## WARD 1.

Elmer D. Goodwin.

James A. Sayers.

## WARD 2.

George M. Davis.

Allan M. Wilson.

## WARD 3.

Joel S. Daniels.

Frank L. Downs.

## WARD 4.

Nathaniel L. Colby.

William A. Phinney.

## WARD 5.

Dennis F. O'Neil.

John F. Lee.

## WARD 6.

Maurice Watson.

Harry L. Davis.

## WARD 7.

Edward B. Woodbury.

Edson S. Heath.

## WARD 8.

Walter B. Mitchell.

Frank A. Cadwell.

## WARD 9.

Timothy F. Cronin.

Arthur L. Prince.

## WARD 10.

Francis X. Lyons.

John H. Rice.

Eugene E. Reed, *ex officio*, chairman.William P. Straw, *ex officio*.

Edward B. Woodbury, vice-chairman.

Harry L. Davis, clerk.

**Superintendent of Public Instruction.**

Charles W. Bickford.....Office, City Hall  
Salary, \$2,300.

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**Superintendent's Clerk.**

Fannie L. Sanborn.....Residence, 161 Hanover street  
Salary, \$600.

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**Truant Officer.**

Curtis W. Davis.....Office, City Hall  
Salary, \$850 and allowance for horsehire. Residence, 849 Chestnut street.

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**Assessors.**

(Chapter 314, Laws of 1903.) Establishing a board of three assessors. Board elected by the common council in December, 1904, one member for two years, one member for four years, and one member for six years, from January 1, 1905. Thereafter biennially in the month of January, beginning in 1907, the common council shall elect one member for six years. Salary, \$1,500.

George A. Clark. Term expires January, 1911.

Joseph O. Tremblay. Term expires January, 1909.

William P. Farmer. Term expires January, 1913.

George A. Clark, chairman.....Office, City Hall

**CLERK OF ASSESSORS.**

Arthur W. Rowell.....Office, City Hall

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**Inspectors of Check-Lists.**

One in each ward chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. { William F. Grauer.\*  
Karl A. Klaubert.
- Ward 2. Charles B. Tucker.
- Ward 3. Arthur W. Rowell.
- Ward 4. Frank P. Collins.
- Ward 5. James F. Otis.
- Ward 6. George A. Taylor.
- Ward 7. Lyman H. Burbank.
- Ward 8. Charles C. Tinkham.
- Ward 9. Wilfred E. Provost.
- Ward 10. John J. Leahey.

Charles C. Tinkham, chairman.  
Arthur W. Rowell, clerk.

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### Overseers of the Poor.

One in each ward, chosen at biennial election in November. The mayor is a member *ex officio*. Compensation, \$50 per annum, each; clerk of the board, \$125 per annum, determined by City Ordinances, chapter 14; section 18, as amended by Ordinances of August 5, 1890, and July 2, 1901. Meet third Wednesday of each month in City Hall building.

- Ward 1. Michael Herbert, 2 Boyden street.
- Ward 2. Daniel G. Andrews, 777 Union street.
- Ward 3. Joseph L. Boudreau, 131 Orange street.
- Ward 4. Charles B. Clarkson, 413 Manchester street.
- Ward 5. Thomas F. Sheehan, 364 Beech street.
- Ward 6. John F. Healy, 483 Central street.
- Ward 7. William Marshall, 80 Amoskeag Corporation.
- Ward 8. George W. Flint, 101 Milford street.
- Ward 9. Philip Pellerin, 399 Cartier street.
- Ward 10. Peter J. Charron, 615 Harvard street.

Eugene E. Reed, *ex officio*. Office, City Hall.  
Thomas C. Stewart, clerk.

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### Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

\* Died September 27, 1908.



William K. Robbins. Term expires first Monday in February, 1910.

William J. Starr. Term expires first Monday in February, 1911.

Joseph E. A. Lanouette. Term expires first Monday in February, 1909.

William B. Blake, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, plumbing and milk inspector. Office, Court House, Merrimack, corner Franklin street.

M. Alma Fracker, office clerk.

### Fire Department.

The chief engineer and four assistant engineers are chosen biennially in the month of January, by a majority of the city councils in convention. The salary of the chief engineer is \$1,500 per annum; the assistant engineers, each \$250 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$75 a year. The annual compensation of the call members of the several hook-and-ladder, hose, steam fire engine, and chemical companies is as follows: Captains, each \$165; lieutenants, each \$160; clerks, each \$160; call engineers, each \$185; assistant engineers, each \$155; all other members, each \$150; payable in semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Six members are permanently employed as engineers at \$76.25 per month each, and twenty-one as drivers at \$68.33 $\frac{1}{3}$  per month each, other permanent men at \$65 per month each, permanent captains, \$75 per month each, and receive no compensation as call members. Members and officers of each company are appointed by the board of engineers.

### Chief Engineer.

Thomas W. Lane.....Office, Central Station, Vine street

Residence, 1937 Elm street. Telephone at house and office.

#### ASSISTANT ENGINEERS.

John F. Seaward.

Arthur Provost.

Clarence R. Merrill.

Thomas F. Fitzsimmons.

Clarence R. Merrill, clerk.

### Trustees of City Library.

(Law of 1854, chapter 1588. See contract with Manchester Athenaeum, printed on pages 107 and 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by aldermen and board of trustees in joint convention in September, annually. Term of service, seven years, no salary. Two additional trustees, mayor, and president of common council, *ex officio*.

Frank P. Carpenter, Elm, corner West North street. Term expires October 1, 1909.

Herman F. Straw, 607 Chestnut street. Term expires October 1, 1914.

Walter M. Parker, 1883 Elm street, corner of Webster. Term expires October 1, 1913.

Roger G. Sullivan, 168 Walnut street. Term expires October 1, 1912.

Henry W. Boutwell, 587 Union street. Term expires October 1, 1911.

William P. Farmer, Candia Road. Term expires October 1, 1910.

Edwin F. Jones, 15 High street. Term expires October 1, 1915.

Eugene E. Reed, *ex officio*.

William P. Straw, *ex officio*.

Edwin F. Jones, clerk.

### City Library.

Franklin street, corner of Dean avenue. Open from 10 A. M. to 8 P. M. Saturdays to 9 P. M. Sundays, 11 A. M. to 5 P. M.

### Librarian.

F. Mabel Winchell, 593 Union street. Salary, \$1,000 annually. Elected by the trustees of library.

### Board of Street and Park Commissioners.

The board of aldermen, biennially, elect one member of said board for a term of six years. Not more than two members can be of the same political party. Said board, consisting of three members, has full charge, management and control of the building, constructing, repairing and maintaining of all the streets, highways, lanes, sidewalks, bridges, public sewers and drains, and public parks and commons. (See Laws of 1893, chapter 264.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at 2 o'clock P. M. each day. Salary of each member, except chief engineer, \$600 per year, payable quarterly, and each is allowed \$150 annually for horsehire.

William McElroy, chairman. Term expires April, 1912.

Byron Worthen. Term expires April, 1914.

Samuel J. Lord, chief engineer, clerk. Term expires April, 1913.

### City Weigher.

Gilbert Lyons. Office, city scales, Franklin street.

Elected biennially in board of aldermen. Salary, \$500 per annum; all fees for weighing returned monthly to city treasurer with sworn statement.

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### Sealer of Weights and Measures.

Charles B. Clarkson.

Elected biennially in January by board of aldermen. Paid by fees. (Section 25, chapter 43, and chapter 125, Public Statutes.)

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### Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by board of aldermen in January, annually, for the term of four years. Subtrustees appointed by board of trustees.

J. Adam Graf, 10 Middle street. Term expires 1909.  
William H. Maxwell, 476 Front street. Term expires 1911.  
Charles P. Porter, 585 Belmont street. Term expires 1910.  
Clarence M. Edgerly, 232 Prospect street. Term expires 1910.  
Stillman P. Cannon, 99 Lowell street. Term expires 1909.  
Charles E. Stearns, 329 Front street. Term expires 1911.  
Edwin F. Jones, 15 High street. Term expires 1912.  
Harrie M. Young, 33 Dutton street. Term expires 1912.  
Fred L. Allen, clerk and treasurer, 33 Walnut street.

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### Subtrustees of Cemeteries.

#### VALLEY CEMETERY.

Alderman Fred O. Parnell, chairman; Alderman Barr, Messrs. Stillman P. Cannon, Frank C. Livingston, Clarence M. Edgerly, and Charles P. Porter.

#### PINE GROVE CEMETERY.

Alderman Andrew B. Bunton, chairman; Alderman Robert Edgar, Messrs. J. Adam Graf, Harrie M. Young, and Edwin F. Jones.

#### AMOSKEAG CEMETERY.

Alderman Ernest W. Wiesner, chairman; Messrs. Charles E. Stearns and William H. Maxwell.



## MANCHESTER CITY GOVERNMENT.

## SUPERINTENDENT OF PINE GROVE CEMETERY.

John Erskine. Office and residence at the cemetery.

## SUPERINTENDENT OF VALLEY CEMETERY.

Eugene C. Smith. Office at the cemetery; residence, 272 Mast street.

## SUPERINTENDENT OF AMOSKEAG CEMETERY.

George C. Harwood. Residence, Amoskeag.

## TRUSTEES OF CEMETERY FUND.

Norwin S. Bean.

Charles H. Anderson.

Eugene E. Reed, *ex officio*.

Fred L. Allen, treasurer.

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Inspector of Buildings.

S. Andrew Sprague.....Office, City Hall

Residence, 525 Lake avenue. Appointed by board of mayor and aldermen, biennially, in February. Salary, \$1,350 per annum. (City Ordinances, chapter 15. Laws of 1883, chapter 94.)

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Inspectors of Oil.

J. Oscar Burbank, 1470 Elm street.

Martin Moll, 45 Barr street.

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees,  $\frac{1}{4}$  of one per cent per gallon.

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Board of Examiners of Plumbers.

Appointed by the mayor.

William K. Robbins, president.

Samuel J. Lord, clerk.

Christian L. Wolf.

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Sinking Fund Commissioners.

William McElroy, chairman.

Fred L. Allen, clerk and treasurer.

Charles H. Manning.

### Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

Salary, \$15.00, payable at expiration of term.

- Ward 1. Daniel McIntire.
  - Ward 2. Frank S. Chase.
  - Ward 3. George E. Prime.
  - Ward 4. Henry B. Fairbanks.
  - Ward 5. Martin J. Whalen.
  - Ward 6. Harry L. Davis.
  - Ward 7. Johann A. Graf.
  - Ward 8. John J. McGovern.
  - Ward 9. Joseph Fleury.
  - Ward 10. Michael McGuinness.
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### Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Salary, \$20.00, payable at expiration of term.

- Ward 1. Charles D. Sumner, 22 Stark street.
  - Ward 2. George F. Millar, 15 Blodget street.
  - Ward 3. George W. Cook, 550 Maple street.
  - Ward 4. Fred A. Hunkins, 316 Manchester street.
  - Ward 5. Martin E. Sullivan, 47 Laurel street.
  - Ward 6. Charles H. Martel, 352 Cedar street.
  - Ward 7. Charles E. Bartlett, 39 West Merrimack street.
  - Ward 8. Arthur G. McKean, 50 Main street.
  - Ward 9. Jeremiah Connor, 52 Rimmon street.
  - Ward 10. Almon O. Oviatt, 997 Valley street.
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### Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Salary, \$15.00, payable at expiration of term.

## WARD 1.

Moise Dion.

Axel G. Sandlund.  
James Quinn.

## WARD 2.

Samuel W. Shepherd.

John T. Plumpton.  
Alfred G. Miles.

## WARD 3.

Willie F. Bean.

Ernest A. Bournival.  
William Nyberg.

## WARD 4.

Charles B. Clarkson.

Richard A. Wheeler.  
Joseph M. Derry.

## WARD 5.

Lawrence A. Hurley.

George D. Burns.  
Edward O'Dee.

## WARD 6.

Henry H. McKelvie.

Thomas B. Craig.  
Charles A. Merrill.

## WARD 7.

James W. Clapp.

John F. Frost.  
Charles F. Richardson.

## WARD 8.

Fred Lange.

Eugene T. Sherburne.  
Fred W. Hoffman.

## WARD 9.

Medard Poulin.

Mederic A. Hebert.  
Oscar Knoettner.

## WARD 10.

Thomas Bolton.

Apollinaire Rousseau.  
William Kennedy.



INAUGURAL ADDRESS.



# THIRD INAUGURAL ADDRESS OF HON. EUGENE E. REED, 1907 AND 1908.

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*Gentlemen of the City Councils of the City of Manchester:*

The municipal affairs with which we are entrusted, with a greater or less measure of responsibility, for the next two years are, in fact, the affairs of a great corporation. The city of Manchester, with its nearly seventy thousand population, is first of all a political body chartered by the state of New Hampshire with certain rights, privileges and powers for its own government and for the performance of certain services to its citizens, services which for years have steadily become more complicated and extended and greatly increased in magnitude. It is this latter view of our connection with, and our duties to, the municipal corporation yearly raising and expending large sums of money (last year \$676,556.89) that I would like to discuss at this time, and it seems to me that we can gain something as to the scope of our duties and the best method of application by recognizing, what is certainly a fact, that it is corporate affairs with which we are entrusted very similar to the affairs of any great private corporation. The taxpayers of Manchester might well be likened to the stockholders of this corporation, and we, the board of directors, as in a private corporation. It is impossible that each individual stockholder should participate in the work of administration, and they have appointed us to act in their stead, and they are going to judge us by the results of what we do or leave undone; by how much they receive in dividends of service from the taxes that they pay and by the general interest and activity which we display in their behalf. There are doubtless other things which will enter into their judgment, but those things we need not discuss here.

## THE PUBLIC SCHOOLS.

One of the great important works which has become the accepted duty of this municipal corporation to undertake is the education of the children of the inhabitants. Incidentally this means the erection and maintenance of many buildings, their heating, repairing and care, the employment of a great army of teachers and a constant watchfulness over the safety and health of these teachers and their pupils. Last year we raised for school purposes \$149,925. One of the heavy items of that expenditure was \$10,500 for repairs. This large sum was



made necessary by the fact that some of the older buildings were unsanitary and in many respects sadly in need of repair, as until the last four years necessary repairs had not been made for one cause and another. Another considerable item, exclusive of this amount, was \$42,000 (appropriated in 1905) for the building of a new schoolhouse, which has been completed within the year and which apparently takes care of our immediate necessities in extending school accommodations. In my belief no appropriation will be necessary in the next two years for new schoolhouses. But, however increasingly great may be the sum of money required to keep our school facilities abreast of the modern demand for sanitation, comfort and efficiency, we may be assured that it is a dividend which the best sentiment of the taxpayers will always demand us to declare and one they will not tolerate to be passed.

#### THE FIRE DEPARTMENT.

Another field of corporate activity is made necessary by the demands for adequate, in fact the best, protection against loss by fire. We have frequent reminders from various sections of the country of the terrible menace which always hangs over a city like Manchester, with so many wooden buildings compact and inviting conflagration which might at any time escape control despite our best efforts. The appropriation for the fire department during the last year was \$117,125. This included an item for the building of a combination engine house and ward room, for a long time greatly needed in the eastern section of the city, where activity in the extension of manufacturing enterprises has been especially in evidence. The cost of this building was \$17,000, and it is now completed. Its equipment will constitute one of the items in the forthcoming estimate for that department and must necessarily be included in the appropriations for this year. In order to make this newly established fire station of greater utility, so that a large and now comparatively unprotected though thickly populated section may be reached without a long detour, a new street should at once be laid out and built. In my judgment an extension of Silver street across Lincoln street and the Portsmouth railroad track would most nearly meet the requirements of the situation. But without reference to permanent improvements included in the fire department estimates, it is a notable fact that nearly one sixth of all the money raised by direct taxation of the people goes for fire protection.

After a careful canvass of the East Manchester situation, I have become persuaded that half-way measures will not be satisfactory and that it will be desirable and in the end profitable for us to equip the new engine house with a new fire engine instead of, as has been suggested, a combination piece of apparatus which, if my estimate of that section of the city be correct, would soon in any event have to be replaced by apparatus of greater capacity, and I therefore specifically

recommend this latter course of action, and for the benefit of the Board of Fire Engineers I will say that in view of the large sum of money that we, as a business corporation, are yearly expending for fire protection the people have a right to demand that the personnel of the service be kept at a high point of efficiency. The very best apparatus that can be furnished will be of secondary value and effect unless manned by young, capable and fearless men. In the selection of new companies, as well as in the reorganization of the old companies, this standard of membership should be regarded and men to fill these positions should be chosen not because of race, religion or political affiliations, but solely with reference to fitness.

#### HEALTH DEPARTMENT.

Last year's appropriation for the health department amounted to \$12,500. Of this amount \$2,500 was expended in enlarging the Isolation hospital, and the balance for routine work of the board. The comparative immunity which Manchester has enjoyed from the spread of contagious diseases would seem to indicate that this appropriation was fully justified. Unloubtedly the department will require less money for the coming year.

#### PATRIOTIC, CHARITABLE AND PHILANTHROPIC.

You will be called upon this year, according to custom, to contribute some of the funds entrusted to us to certain patriotic, charitable and philanthropic purposes, the authority for which has been granted to us by law. These appropriations form an exception to the general rule, which prohibits our giving away public moneys or property.

#### PINE GROVE CEMETERY.

No public work undertaken by the city of Manchester during the last few years has met with such universal commendation as the improving and beautifying of Pine Grove cemetery. The average appropriation for maintaining this cemetery, including the permanent improvements for the five years last past, has been \$10,803, but there is an income which the city annually receives from the perpetual care of lots, amounting on an average to \$7,411 a year. Deducting this amount from the amount expended, we find that the average annual cost of maintenance during that period is really but \$3,392, which, when results are considered, would indicate that there has been no place where the taxpayers have received more in value for the money expended. The care and taste displayed by a community in providing a place for the burial of its dead is said to be one of the best evidences of the character of its people. In this work we are undertaking to stand in the place of those who rightly desire that everything reasonable should be done that the sentiments of love and sorrow should be

properly exemplified. Nature has done much for Pine Grove cemetery and in one particular has supplied the means of greatly beautifying this spot. There is, in the unimproved northern section, an opportunity for making a miniature lake at a comparatively small expenditure. Every consideration of landscape gardening declares for it and those who have given the matter study, including the superintendent, agree with me that this work should be undertaken at once. Roughly estimated, this work can be completed for \$10,000. In order that this undertaking may not interfere with the routine work and may be done under the direct supervision of the superintendent, I would recommend that \$5,000 be appropriated this year, followed by a similar amount next year for the completion of the work.

#### COMMISSIONS.

Constituting a very important part in the expenditure of the taxpayers' money must be figured the expense of the work done by two commissions, the Police Commission and the Street and Park Commission. For the first we appropriated last year \$61,400, and for the second \$145,800; altogether about one third of our total municipal expenditure. The work of these commissions is carried on entirely independent of the city government, and without reference to the opinion or expectations of any person or persons whomsoever. They are each a law unto themselves and responsible to no one. This situation has resulted in a general feeling of hostility against them on the part not only of members of the city government but also on the part of the general public. The only question that we have to consider with reference to them or their works is how great a sum of money as a whole we can afford to expend under their direction for the general purposes, the administration of which they represent. They doubtless will submit an estimate according to the requirements of law which must have consideration at our hands. I believe that very much of the general feeling against the commission would be allayed if the mayor and city engineer, in the case of the Street and Park Commission, and the mayor and president of the common council, in the case of the Police Commission, were to be made *ex officio* members of these two commissions, with power equal to the other members of the respective boards.

But this of course is not a matter strictly within the scope of an inaugural address, and one that if deemed worthy of consideration must be taken up by the legislature, which fixes the powers and determines the method of constituting the bodies under discussion. On the other hand the experience of the past has clearly indicated the unwisdom of any attempt on the part of the city government to undertake the instruction, direction or advising of commissions as to what they shall or shall not do, or how they shall conduct their departments. Resolutions have been introduced from time to time with this purpose



in view, and have had no other result than the sacrifice of the dignity of the city government to no purpose. In matters of this kind our action has no more weight than a petition signed by an equal number of citizens chosen at random from our population. One thing, however, we may do, and that is to appropriate money for specific purposes and to withhold it in others. In this respect I would recommend that as liberal an appropriation as possible be made for the general repair of the public highways, as in my opinion they were never in so bad a condition, taken as a whole, and especially in the outlying districts, as at the present time.

#### FIGHT FOR THE TREES.

While on the subject of the streets of Manchester, it might be well for me to suggest that the magnificent shade trees upon our streets, parks and commons are threatened by a very serious danger in the presence of the browntail moth, which has multiplied during the last season to such an extent that the preservation of the trees during the coming spring and summer will require work on a larger scale than ever before undertaken by this city. But we may be encouraged by the knowledge that it is only a question of persistence and thoroughness for us to succeed in the fight against this pest. The nests containing their eggs are spread upon the small branches of the trees where they may readily be seen and removed, but it is a work that cannot be neglected, for the nests, owing to incompleteness of our efforts last year, have multiplied to such an extent that further neglect this year would mean almost the entire destruction of the foliage. The utmost joint efforts of the city and individuals will be required. I am informed that some kind of legislative action will have to be taken to enable us to compel such private property holders as neglect to do their part. However that may be, as a first step in this fight for the trees I recommend an appropriation to be expended under the direction of the Street and Park Commission. It would be a great mistake and poor economy for us to hesitate at this time in appropriating whatever sum may be necessary, be it great or small, to thoroughly and effectually accomplish this work, for every nest of a browntail moth left for its eggs to hatch this spring multiplies the cost of the work of extermination many fold.

I present a financial statement showing the liabilities of this great corporation January 1, 1907:

Bonded indebtedness, \$1,775,000.

Sinking fund, \$575,000; an increase of \$145,000 during the last two years.

Water bonds due January 1, \$100,000, provided for by sinking fund.

Gross cash on hand, \$128,779.06.

Net cash on hand, \$105,874.06.

The above statement shows that the city of Manchester has a large bonded indebtedness, but as compared with other cities similarly sit-

uated the statement is a most favorable one. In fact, I know of no other municipal corporation which can today present so favorable a report. For us to properly estimate our real indebtedness, we should eliminate from the net bonded indebtedness the water bonds, as they are represented by a plant of permanent value far in excess of that indebtedness. In fact that plant might easily be disposed of for such a sum as would pay every dollar that the city owes. One series of bonds amounting to \$50,000, issued in 1885, will fall due this year. The payment of these bonds was not provided for by the establishment of a sinking fund, as has been the more businesslike practice of recent years. Doubtless you will agree with me that this large amount of money ought not to be drawn in one assessment from the taxpayers, but should be refunded, as was done with a similar maturing series of the year 1906, and their liquidation should be provided for in the same manner. The fundamental reason for thus gradually whittling off an indebtedness of this kind is to be found in that wise rule which always enjoins us to keep down the tax rate, or at least never permit it to rise to the point where business interests are oppressed. We must offer no discouragement to small or large capitalists who would locate their business here; no more should we be unjust to those who are already established, and an oppressive rate not only forbids the former but discourages and drives away the latter, so when some unusual exigency of public need arises, calling for some large expenditure of money, a wise canvass of the probable demands of a term of years enables us to equalize the rate by distributing the burden over a greater extent of time. The pay-as-you-go policy does not apply to such instances, although our ability to conform thereto may prove a very valuable test of the advisability of entering upon some projects of public service and betterments. A reasonably low tax rate with no great variation from year to year is the highly desirable thing for a city like Manchester, whose future depends upon its ability to keep prosperous the enterprises already located here and at the same time to be able to offer inducements for new ones to come.

What constitutes a low rate might not be answered the same by all the taxpayers. At best it is a relative term. The general consensus of opinion would doubtless now denominate a rate something under two dollars on the hundred as reasonably low, and I believe that by a united effort on the part of the city councils that rate can be maintained, and by means of it the inhabitants of Manchester furnished with those modern privileges and benefits which they now enjoy. Good and efficient schools, good roads kept in repair, suitable fire and police protection, and the proper administrative service in all the ordinary functions of government should be had with a rate in the vicinity of the figure above mentioned. But this cannot be accomplished by, and in any event will not be due to, the efforts of any one man, but must come from the concerted, painstaking effort of us all.

EUGENE E. REED,

*Mayor.*

# REPORT OF THE CITY AUDITOR.





## REPORT OF THE CITY AUDITOR.

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*To the Board of Mayor and Aldermen:*

GENTLEMEN:—The auditor herewith submits to your honorable body his report, giving a tabular statement of the receipts and expenditures for the year 1908, and a detailed statement of the expenses of each appropriation during the year.

Respectfully,

JAMES E. DODGE,

*City Auditor.*

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## REPORT OF THE CITY TREASURER FOR THE YEAR 1908.

Temporary loans:		DR.
Bond & Goodwin .....	\$225,000.00	
Wm. A. Read & Co.....	75,000.00	
	<hr/>	\$300,000.00
E. C. Smith, city clerk:		
Dog licenses .....	\$2,704.02	
Sewer licenses .....	1,261.36	
Rent of tenements.....	741.63	
Show licenses .....	134.00	
Pool and bowling licenses.....	1,050.89	
Rent of city hall .....	129.00	
Junk dealers' licenses.....	75.00	
Lunch cart licenses .....	30.00	
Job team and hacking licenses.....	2.00	
Pawnbrokers' licenses .....	10.00	
Employment bureau .....	45.00	
Renovating license .....	5.00	
Fees, intention of marriage .....	613.00	
mortgages .....	158.94	
conditional sales .....	32.00	
corporations .....	27.50	
Miscellaneous records .....	22.25	
Writs .....	34.20	
Firms .....	6.50	
Assignment of wages .....	19.00	
Discharges .....	25.50	
	<hr/>	7,126.79

## Police department:

M. J. Healy, fines and costs.....	\$2,866.94	
John C. Bickford, fees.....	1,104.14	
		<hr/>
		\$3,971.08

## Pine Grove cemetery:

J. H. Erskine, superintendent.....	\$6,665.24	
Fred L. Allen, treasurer.....	3,050.89	
		<hr/>
		9,716.13

## Merrill cemetery:

J. H. Erskine, superintendent, care of lots.....		57.00
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## Valley cemetery:

Eugene C. Smith, superintendent.....	\$1,702.00	
Fred L. Allen, treasurer, sale of paths....	53.50	
		<hr/>
		1,755.50

## Solon A. Carter, state treasurer:

Insurance tax .....	\$3,611.75	
Railroad tax .....	57,867.32	
Savings bank tax .....	79,313.30	
Literary fund .....	3,578.40	
		<hr/>
		144,370.77

## New Hampshire state license commission:

Balance licenses, 1907.....	\$3,056.53	
Licenses, 1908 .....	53,322.49	
		<hr/>
		56,379.02

## City scales:

Gilbert Lyons .....		367.25
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## Water works department:

Charles K. Walker, superintendent.....		147,561.52
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## Board of health:

Milk licenses .....	\$371.00	
Board of patients at Isolation hospital.....	469.07	
		<hr/>
		840.07

## Interest on bank deposits:

Second National bank .....	\$2,056.09	
George E. Morrill, collector .....	593.42	
		<hr/>
		2,649.51

## School department:

C. W. Bickford, superintendent, tuition....	\$1,711.30	
H. L. Davis, clerk, free text-books.....	194.66	
H. L. Davis, forfeits, evening schools.....	150.00	
H. L. Davis, miscellaneous .....	6.61	
		<hr/>
		2,062.57

## Street and Park commission:

Manchester Street Railway.....	\$12,757.95	
Valley cemetery .....	1,173.05	
Water-works .....	1,418.69	
Miscellaneous .....	1,142.34	
		<hr/>
		16,492.03

## Miscellaneous receipts:

E. C. Smith, city clerk, sale of personal property at city farm, August 28, 1907, Arthur Beck .....	\$0.95
John Healy, overseer of the poor, for board of Mrs. Heath at county farm from Oct. 1, 1907, to July 1, 1908.....	65.01
S. J. Lord, plumbers' licenses to Jan. 1, 1908 .....	77.00
E. C. Smith, city clerk, sale of personal property at city farm August, 1907, Charles Sanborn .....	.25
I. Gagne, 2,800 lbs. tubing @ $\frac{1}{4}$ c. per lb., land and buildings committee.....	7.00
E. C. Smith, city clerk, sale of personal property at city farm, Peter Morris....	2.00
Annis Flour & Grain Co., overdraft, city farm .....	3.50
Thomas J. Briggs, overdraft, police department .....	2.50
George N. Rogers, overdraft, fire department .....	12.50
Manchester Traction, Light & Power Co., overdraft, city hall .....	16.00
Arthur A. Page, on account, for expense of child .....	10.00
T. A. McDonald, overdraft, fire department,	.50
T. J. Howard, in full settlement of debt and costs in suit of city of Manchester vs. Elizabeth Shea .....	200.00
S. J. Lord, plumbers' licenses.....	51.50

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 448.71

## George E. Morrill, collector of taxes:

Taxes, 1908 .....	\$635,918.02
Taxes, 1907 .....	58,808.25
Redemption of land sold for taxes.....	3,029.24
Abatement of taxes, 1907 list.....	868.40
Abatement of taxes, 1906 list.....	5.73
Abatement of taxes, 1908 list.....	1,100.93
Land sold for taxes.....	2,588.96
Land sold for taxes, nonresident.....	286.31
Interest on taxes, 1907.....	1,760.65
Costs on taxes, 1907.....	1,776.47
Costs on taxes, 1908.....	1,085.00
Old taxes, 1902.....	9.00
Old taxes, 1903.....	14.70



Old taxes, 1904.....	\$13.05	
Old taxes, 1905.....	23.86	
Old taxes, 1906.....	221.83	
		<hr/>
		\$707,510.40
Board of Assessors:		
From engineer's department.....		800.00
		<hr/>
Receipts for the year.....	\$1,402,108.35	
Cash on hand January 1, 1908.....	100,972.78	
Unpaid bills December 31, 1908.....	30,452.24	
		<hr/>
		\$1,533,533.37
		<hr/>
		CR.
Total drafts .....	\$1,412,593.55	
Unpaid bills January 1, 1908.....	35,501.02	
Cash on hand December 31, 1908.....	85,438.80	
		<hr/>
		\$1,533,533.37
		<hr/>

Respectfully submitted,

FRED L. ALLEN,  
*City Treasurer.*

*To the City Council of the City of Manchester:*

GENTLEMEN:—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1908, and find proper vouchers for all payments and all receipts duly accounted for.

The net cash on hand January 1, 1908, was.....	\$65,471.76
Receipts during the year.....	1,402,108.35
	<hr/>
Total .....	\$1,467,580.11
	<hr/>
Amount of drafts during the year.....	\$1,412,593.55
Net cash on hand December 31, 1908.....	54,986.56
	<hr/>
Total .....	\$1,467,580.11
	<hr/>
Cash taken December 31, 1908, I find to be as follows:	
Deposited in Second National Bank, Boston, Mass.....	\$23,358.80
Deposited in Second National Bank, Manchester, N. H....	57,577.48
Deposited in office safe.....	4,502.52
	<hr/>
Gross amount of cash on hand December 31, 1908....	\$85,438.80
Deduct amount of unpaid bills.....	30,452.24
	<hr/>
Net amount of cash on hand December 31, 1908.....	\$54,986.56

JAMES E. DODGE,  
*City Auditor.*

# STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER FOR THE YEAR 1908.

## RECEIPTS.

## CENTRAL DEPARTMENT.

## Received from:

Direct city taxes .....	\$699,859.04	
Cost and interest on taxes.....	4,622.12	
	<hr/>	\$704,481.16
Licenses to enter sewer .....	\$1,261.36	
to keep dog .....	2,364.02	
to sell milk .....	371.00	
to keep billiard and pool tables, lunch carts, etc.....	1,187.89	
to shows and exhibitions.....	164.00	
Fees from city clerk.....	938.89	
	<hr/>	\$6,287.16
Rents .....		\$1,210.63

## SUNDRIES.

## Received from:

City scales .....	\$367.25	
Tuition and free text-books.....	1,905.96	
Miscellaneous sources .....	216.61	
Evening schools .....	150.00	
Board of health.....	469.07	
Assessors' department .....	800.00	
	<hr/>	\$3,908.89

## POLICE DEPARTMENT.

Received from costs and fines.....	\$3,971.08
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## PUBLIC PLACES.

## Received from:

Pine Grove cemetery.....	\$9,716.13	
Valley cemetery .....	1,755.50	
Merrill cemetery .....	57.00	
	<hr/>	\$11,528.63

## WATER-WORKS.

Gross receipts .....	\$147,561.52
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## CITY FARM.

Received from city farm .....	\$3.20
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## REPORT OF THE CITY AUDITOR.

## LIQUOR LICENSES.

Received from state liquor commissioners for licenses....	\$56,379.02
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## MISCELLANEOUS.

## Received from:

Interest .....	\$2,649.51	
Land redeemed from tax sale.....	3,029.24	
Overdrafts .....	35.00	
Street and park commission, sale of pipe, stone, etc., and for labor.....	16,499.03	
Hillsborough county .....	65.01	
Plumbers' licenses .....	128.50	
	<hr/>	\$22,406.29

Total ordinary receipts during the year 1908.....	\$957,737.58
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## TEMPORARY LOAN.

Received from loan in anticipation of tax of 1908.....	\$300,000.00
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## STATE.

## Received from:

Insurance taxes .....	\$3,611.75	
Railroad taxes .....	57,867.32	
Savings bank taxes .....	79,313.30	
Literary fund .....	3,578.40	
	<hr/>	\$144,370.77

Gross receipts .....	\$1,402,108.35
Net cash on hand January 1, 1908.....	65,471.76
	<hr/>
	<hr/>
	\$1,467,580.11

## EXPENDITURES.

## CENTRAL DEPARTMENT.

Interest on water bonds .....	\$29,737.50	
on city bonds .....	35,418.50	
on cemetery bonds .....	2,500.00	
on temporary loans .....	6,557.09	
	<hr/>	\$74,213.09
City hall .....	\$4,093.92	
Printing and stationery .....	2,227.22	
Incidental expenses .....	6,119.94	
Mayor's incidentals .....	290.00	
City officers' salaries .....	27,423.13	
Auditor's department .....	2,294.02	
Sinking fund trustees .....	36,000.00	
Assessors' department .....	9,298.06	
Land sold for taxes .....	2,875.27	
	<hr/>	\$90,621.56

## STREET AND SEWER DEPARTMENT.

Street and park commission .....	\$10,061.77	
Snow and ice .....	6,110.89	
Repairs of highways .....	49,123.27	
New highways .....	545.89	
Watering streets .....	8,143.78	
Paving streets .....	22,444.15	
Macadamizing streets .....	6,998.24	
Grading for concrete .....	2,936.62	
Scavenger service .....	25,725.10	
Street sweeping .....	8,374.96	
Lighting streets .....	60,038.59	
Bridges .....	13,912.73	
Brown-tail and gypsy moth .....	5,591.30	
City teams .....	17,819.83	
Repairs of sewers .....	6,175.32	
New sewers .....	16,991.20	
Land taken for highways .....	3,645.38	
City yard .....	8,041.17	
		\$272,680.19

## ENGINEER'S DEPARTMENT.

Engineer's department .....	\$8,600.00
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## HEALTH DEPARTMENT.

Health department .....	\$15,534.57
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## SCHOOL DEPARTMENT.

Repairs of schoolhouses.....	\$8,503.14	
Fuel .....	11,477.22	
Furniture and supplies .....	1,266.73	
Books and stationery.....	15.12	
Printing and advertising .....	401.63	
Contingent expenses .....	4,294.74	
Care of schoolrooms .....	8,693.20	
Evening schools .....	1,634.81	
Evening school, mechanical drawing.....	259.12	
Teachers' salaries .....	109,476.57	
Free text-books .....	7,147.02	
Manual training .....	599.37	
Cemetery wall, Varney school .....	792.06	
Steam boiler, Webster school .....	995.00	
Alteration of schoolhouses for fire protection,	1,937.64	
School bell, Amoskeag school .....	687.86	
		\$158,181.23



## CITY LIBRARY.

City library .....	\$8,000.00
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## FIRE DEPARTMENT.

Fire department .....	\$88,618.45	
Fire-alarm telegraph .....	2,100.71	
Hydrant service .....	20,925.00	
Equipping and maintenance ward 10 engine house .....	449.81	
Hose wagon, General Stark engine house....	1,177.50	
Hose wagon, Fulton engine house .....	1,062.66	
	<hr/>	\$114,334.13

## POLICE DEPARTMENT.

Police station .....	\$3,184.74	
Police court .....	2,911.08	
Police commission .....	53,586.14	
	<hr/>	\$59,681.96

## PUBLIC BUILDINGS.

Repairs of buildings .....	\$9,045.75	
Board of examiners of plumbers .....	28.41	
Addition to Hallsville schoolhouse .....	17,944.05	
	<hr/>	\$27,018.21

## WATER-WORKS.

Water-works .....	\$64,070.25	
Water-works sinking fund .....	25,925.00	
	<hr/>	\$89,995.25

## PUBLIC PLACES.

Commons .....	\$4,219.00	
Stark park .....	911.46	
Derryfield park .....	985.12	
Lafayette park .....	1,928.30	
Miscellaneous playgrounds .....	276.84	
Pine Grove cemetery.....	14,498.89	
Valley cemetery .....	6,429.84	
Amoskeag cemetery .....	498.37	
Merrill cemetery .....	99.35	
	<hr/>	\$29,847.17

# RECEIPTS AND EXPENDITURES.

39

## CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Paupers off farm .....	\$18,347.45	
Indigent soldiers .....	522.05	
Women's Aid Home .....	300.00	
Elliot hospital .....	300.00	
Notre Dame de Lourdes hospital .....	300.00	
Sacred Heart hospital .....	300.00	
W. C. T. U. Mercy Home .....	300.00	
Infant Asylum .....	300.00	
Decoration of soldiers' graves .....	500.00	
Militia .....	1,200.00	
Band concerts .....	450.00	
Manchester Historical society .....	600.00	
Orphanut St. Pierre .....	300.00	
St. Joseph's Orphanage .....	300.00	
Hospice St. Vincent de Paul .....	300.00	
Animal Rescue League .....	200.00	
Boys' club .....	200.00	
West Side reading room .....	100.00	
		<hr/>
		\$24,919.50

## ABATEMENTS.

Abatement of taxes .....	\$2,013.57	
		<hr/>
Total of ordinary municipal expenditures.....	\$975,640.43	

## TEMPORARY LOAN.

Temporary loan .....	\$300,000.00	
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## BONDED DEBT.

School bonds .....	\$10,000.00	
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## STATE AND COUNTY TAXES.

State tax .....	\$78,100.00	
County tax .....	48,853.12	
		<hr/>
		\$126,953.12

Grand total of expenditures during the year.....	\$1,412,593.55	
Cash on hand December 31, 1908.....	\$85,438.80	
Less unpaid bills .....	30,452.24	
		<hr/>
		54,986.56
		<hr/>
		\$1,467,580.11
		<hr/> <hr/>

**Interest.**

Appropriation .....	\$44,000.00	
Transferred from water-works account....	29,737.50	
Transferred from unappropriated money...	475.59	
		<u>\$74,213.09</u>

**EXPENDITURES.**

Coupons on bridge bonds .....	\$2,416.00	
city bonds .....	2,360.00	
city funding bonds .....	3,552.50	
cemetery bonds .....	2,500.00	
improvement bonds .....	15,940.00	
municipal bonds .....	2,800.00	
refunding loan bonds .....	3,750.00	
school bonds .....	4,600.00	
water bonds .....	29,737.50	
		<u>\$67,656.00</u>
Bond & Goodwin, discount on notes .....	\$5,951.57	
William A. Read & Co., discount on notes..	605.52	
		<u>\$6,557.09</u>
Total expenditures .....		<u>\$74,213.09</u>

**Payment of Funded Debt.**

Appropriation .....	\$10,000.00
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**EXPENDITURES.**

School bonds .....	\$10,000.00
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**Sinking Fund.**

Appropriation .....	\$36,000.00
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**EXPENDITURES.**

Trustees of sinking fund.....	\$36,000.00
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## Unappropriated Money.

Transferred from the following accounts:

City hall .....	\$406.08
Printing and stationery .....	172.78
Incidental expenses .....	1,880.06
Auditor's department .....	5.98
Mayor's incidentals .....	10.00
Assessors' department .....	1.94
Repairs of highways .....	1,319.97
Snow and ice .....	2,889.11
New highways .....	3,454.11
Land taken for highways .....	54.62
Brown-tail and gypsy moth.....	156.69
Grading for concrete .....	563.38
Repairs of sewers .....	1,894.45
New sewers .....	9,387.38
Commons .....	291.50
Stark park .....	88.54
Derryfield park .....	14.88
Lafayette park .....	71.70
Lighting streets .....	461.41
Fire-alarm telegraph .....	499.29
Hose wagon, General Stark engine house..	22.50
Hose wagon, Fulton engine house.....	137.34
Police commission .....	1,413.86
Repairs of buildings .....	4.44
Pine Grove cemetery .....	1.11
Valley cemetery .....	70.16
Amoskeag cemetery .....	1.58
Merrill cemetery .....	.65
Books and stationery .....	34.88
Addition to Hallsville schoolhouse.....	55.95
Alterations of schoolhouses for fire protection .....	62.36
Steam boiler, Webster school .....	5.00
Furniture and supplies .....	233.27
Fuel .....	22.78
Free text-books .....	47.64
Manual training .....	.63
Teachers' salaries .....	23.43
Evening schools .....	15.19
School bell in Amoskeag .....	12.14
Cemetery wall, Varney school .....	7.94
Evening school mechanical drawing.....	40.88



## REPORT OF THE CITY AUDITOR.

Board of examiners of plumbers .....	\$21.59	
Land sold for taxes .....	2,124.73	
Unappropriated cash in treasury .....	23,582.94	
		<u>\$51,567.86</u>

## EXPENDITURES.

## Transferred to the following accounts:

Interest .....	\$475.59	
City officers' salaries .....	723.13	
Street and park commission .....	6,761.77	
Watering streets .....	1,091.28	
Paving streets .....	3,505.06	
Macadamizing streets .....	998.24	
Scavenger service .....	725.10	
Street sweeping .....	2,374.96	
Bridges .....	5,442.37	
City teams .....	7,647.74	
Miscellaneous playgrounds .....	21.85	
City yard .....	2,041.17	
Health department .....	4,034.57	
Fire department .....	7,968.45	
Police station .....	184.74	
Police court .....	11.08	
Repairs of schoolhouses .....	503.14	
Printing and advertising .....	51.63	
Contingent expenses .....	1,294.74	
Care of schoolrooms .....	193.20	
Paupers off farm .....	5,282.44	
Indigent soldiers .....	222.05	
Abatement of taxes .....	13.57	
		<u>\$51,567.86</u>

## Temporary Loan.

## RECEIPTS.

Bond & Goodwin .....	\$225,000.00	
W. A. Read & Co. ....	75,000.00	
		<u>\$300,000.00</u>

## EXPENDITURES.

Bond & Goodwin .....	\$225,000.00	
W. A. Read & Co. ....	75,000.00	
		<u>\$300,000.00</u>

## City Hall.

Appropriation .....	\$4,500.00
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## EXPENDITURES.

## FUEL AND LIGHTS.

Manchester Traction, Light & Power Co., electric lights .....	\$599.32	
Maxwell Ice Co., wood .....	14.00	
Moore & Preston Coal Co., coal .....	585.43	
People's Gas-Light Co., gas.....	282.92	
	<hr/>	\$1,481.67

## WATER AND TELEPHONE.

New England Telephone & Telegraph Co., telephone service .....	\$8.55	
Water commissioners, use of water.....	468.40	
	<hr/>	\$476.95

## CLEANING OFFICES, ETC.

J. B. Baril, janitor service .....	\$28.00	
Daniels-Cornell Co., soap .....	11.25	
L. M. Folsom, cheesecloth, crash, towels....	8.34	
A. M. Finney, cleaning rugs .....	2.40	
Manchester Hardware Co., dusters, brushes, paper, wringer, etc. ....	22.91	
T. A. MacDonald, brooms .....	3.00	
Sarah Minton, cleaning .....	360.00	
The Office Toilet Supply Co., toilet service..	9.75	
Charles Robitaille, janitor .....	\$49.31	
Timothy Sullivan, janitor public comfort...	515.00	
John B. Varick Co., mop waste .....	2.68	
J. H. Wiggin & Co., matches .....	7.59	
	<hr/>	\$1,820.23

## FURNITURE AND SUPPLIES.

L. B. Badwell & Co., ice .....	\$24.00	
Consolidated Electric Lamp Co., lamps.....	42.50	
N. E. Finney & Co., caning chairs.....	6.00	
A. L. Franks & Co., electric fan, cord, plug,	14.35	
Robert J. Hayes, 1 twin telephone receiver	5.00	
Charles A. Hoitt Co., rug, chair, cuspidors..	11.33	
Charles A. Hoitt Co., 1 card cabinet .....	8.50	
Manchester Hardware Co., 1 flag, etc. ....	8.38	
John B. Varick Co., 1 thermometer.....	1.50	
	<hr/>	\$121.56

## INCIDENTAL REPAIRS.

W. L. Aller & Co., caning chairs.....	\$2.85	
Barton Company, hanging, taking down, and repairing awnings .....	40.69	
Bankers Locks Inspection Co., cleaning and changing combinations .....	3.00	
E. M. Bryant & Co., shade and lamps, repair- ing telephones, etc. ....	4.33	
George B. Cressey, glass and labor.....	2.57	
R. D. Gay, repairing flag .....	1.25	
W. E. Goodwin, plumbing repairs.....	22.84	
Peter Harris & Son, 2 keys.....	.50	
C. A. Hoitt Co., reversing shades .....	1.25	
Pike & Heald Co., repairing awning.....	.82	
H. A. Piper, repairing mop wringer.....	.60	
Edward Sargent, keys .....	.75	
Stevens & Bradley, wheel for radiator valve	.15	
		<hr/>
		\$81.60

## SUNDRIES.

W. G. Berry, insurance premium.....	\$6.75	
George Blanchet, insurance premium.....	3.38	
C. B. Clarkson, weighing coal.....	4.00	
Clough & Parker, insurance premium.....	3.38	
Clarence M. Edgerly, insurance premium....	6.75	
John A. Sheehan, insurance premium.....	55.84	
Fred R. Stark, insurance premium.....	31.81	
		<hr/>
		\$111.91
Total expenditures .....	\$4,093.92	
Transferred to unappropriated money.....	406.08	
		<hr/>
		\$4,500.00
		<hr/>

## Printing and Stationery.

Appropriation .....	\$2,400.00
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## EXPENDITURES.

## TAX COLLECTOR.

John B. Clarke Co., printing tax bills, re- ceipts .....	\$84.75	
John B. Clarke Co., advertising notice.....	37.50	
Temple & Farrington Co., envelopes, index..	3.86	
		<hr/>
		\$126.11

CITY CLERK.

W. P. Goodman, stationery.....	\$15.10	
Nutfield Press, printing blanks.....	2.20	
Albert Ruemely, printing notices, blanks, certificates, letterheads .....	68.00	
E. C. Smith, paid for stamped envelopes....	10.62	
Yawman & Erbe Manufacturing Co., cards, ruled and printed .....	13.00	
	<hr/>	\$108.92

CITY AUDITOR.

John B. Clarke Co., printing 500 city reports,	\$1,215.30	
Nutfield Press, printing weigher's returns..	2.75	
Temple & Farrington Co., binding 130 city reports .....	117.00	
J. Arthur Williams, printing billheads and postals .....	25.75	
	<hr/>	\$1,360.80

CITY TREASURER.

E. H. Clough, envelopes, postals, stamps....	\$46.84	
E. A. Stratton Co., printing slips, receipts, envelopes .....	14.25	
Temple & Farrington Co., stationery.....	2.20	
	<hr/>	\$63.29

MAYOR.

W. P. Goodman, paper and ink.....	\$1.10	
Ruemely Press, printing 2,000 order blanks, 500 postals .....	14.00	
	<hr/>	\$15.10

CITY COUNCIL AND COMMITTEES.

Ruemely Press, postals, appropriation sheets,	\$38.00	
Ruemely Press, printing blanks.....	22.50	
Ruemely Press, 1 card index.....	9.00	
E. A. Stratton Co., printing envelopes, etc., and carbon paper .....	10.25	
Temple & Farrington Co., 1 folio.....	1.50	
	<hr/>	\$81.25

CITY WEIGHER.

Temple & Farrington Co., 4 books, No. 7, 836.....	\$14.00
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## SUNDRIES.

John B. Clarke Co., printing checklists.....	\$427.60	
E. A. Stratton Co., books and stationery (inspector of checklists).....	30.15	
		<hr/> \$457.75
Total expenditures .....		\$2,227.22
Transferred to unappropriated money .....		172.78
		<hr/> \$2,400.00

## Incidental Expenses.

Appropriation .....	<hr/> \$8,000.00
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## EXPENDITURES.

## BIRTHS AND DEATHS.

George L. Bastian, M. D.....	\$10.75
F. N. Beardslee, M. D.....	.75
H. W. N. Bennett, M. D.....	.25
W. L. Biron, M. D.....	45.25
Kate S. Bolton .....	15.25
H. W. Boutwell, M. D.....	3.50
A. A. E. Brien, M. D.....	1.25
J. F. Brown, M. D.....	2.50
J. S. Brown, M. D.....	5.50
Lillian G. Bullock, M. D.....	2.25
I. L. Carpenter, M. D.....	3.50
Charles Chirurg, M. D.....	4.75
Herman Christophe, M. D.....	7.75
Clarence O. Coburn, M. D.....	.25
J. M. Collity, M. D.....	9.00
P. W. F. Corning, M. D.....	2.00
Walter-T. Crosby, M. D.....	5.50
E. H. Currier, M. D.....	3.50
Charles L. Curtiss, M. D.....	6.75
Mary Danforth, M. D.....	6.25
George M. Davis, M. D.....	21.00
J. H. DeGross, M. D.....	.75
R. H. Dillon, M. D.....	5.25
C. M. Dodge, M. D.....	2.75
E. B. Dunbar, M. D.....	14.75
John D. Ferguson, M. D.....	1.75



C. F. Flanders, M. D.....	\$20.75
C. A. Folsom, M. D.....	7.50
George S. Foster, M. D.....	3.00
George Frechette, M. D.....	6.75
E. N. Fugere, M. D.....	38.75
John H. Gleason, M. D.....	4.75
Moise Guerin, M. D.....	21.75
Noel E. Guillet, M. D.....	1.00
J. A. Harlan, M. D.....	.50
George B. Hoitt, M. D.....	6.25
M. E. Kean, M. D.....	10.25
J. A. Lacasse, M. D.....	30.25
Gustave LaFontaine, M. D.....	20.50
Susan Laflamme .....	27.50
J. E. A. Lanouette, M. D.....	45.00
J. E. Larochelle, M. D.....	52.75
Z. A. Lavoie, M. D.....	61.75
J. D. Lemay, M. D.....	7.75
J. E. Lemaitre, M. D.....	3.00
William H. Lyons, M. D.....	11.75
A. S. Mangurian, M. D.....	5.00
Napoleon Matte, M. D.....	1.00
C. W. Milliken, M. D.....	2.75
G. B. Morey, M. D.....	1.25
John T. Murray, M. D.....	5.50
J. W. D. McDonald, M. D.....	10.50
C. F. Ober, M. D.....	.50
John C. O'Connor, M. D.....	1.00
Clara Odman .....	6.00
D. W. Parker, M. D.....	6.50
W. M. Parsons, M. D.....	1.50
W. H. Pattee, M. D.....	4.75
Frederick Perkins, M. D.....	.75
Anna Pollmer .....	9.00
William Richardson, M. D.....	.25
J. F. Robinson, M. D.....	3.50
F. N. Rogers, M. D.....	2.75
J. E. E. Roy, M. D.....	13.25
Nicholas Sasseville, M. D.....	5.00
Mrs. Isabelle Smith .....	.25
Servule St. Pierre, M. D.....	10.25
Gillis Stark, M. D.....	10.00
Charlotte D. Stewartson, M. D.....	1.25
Henry L. Stickney, M. D.....	4.25
A. Gale Straw, M. D.....	1.50
Zatae L. Straw, M. D.....	10.00

C. A. Sturtevant, M. D.....	\$4.50
C. B. Sturtevant, M. D.....	2.50
James Sullivan, M. D.....	3.75
Emil Sylvain, M. D.....	15.25
Joseph Taylor, M. D.....	18.75
W. A. Thompson, M. D.....	4.50
A. J. Todd, M. D.....	2.25
George D. Towne, M. D.....	.50
E. C. Tremblay, M. D.....	2.75
Ellen Wallace, M. D.....	1.00
Maurice Watson, M. D.....	3.75
George M. Watson, M. D.....	27.75
N. B. Webber, M. D.....	6.75
R. W. Weeks, M. D.....	2.50
Arthur F. Wheat, M. D.....	3.75
George C. Wilkins, M. D.....	5.75
M. W. Work, M. D.....	.75

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 \$790.25

## MARRIAGES.

Rev. Charles R. Bailey .....	\$2.75
Rev. Edgar Blake .....	5.50
Rev. James H. Brennan .....	13.50
Rev. Thomas Chalmers .....	2.25
Rev. J. A. Chevalier .....	16.00
Rev. N. L. Colby.....	16.50
Rev. Matthew Creamer.....	1.00
Rev. I. H. C. Davignon.....	18.25
Rev. L. J. A. Doucet.....	2.75
Rev. John E. A. Evert.....	1.00
I. E. & W. W. Forbes.....	4.50
Rev. David Fraser.....	4.25
Rev. Charles Frost .....	.50
Rev. Fred K. Gamble .....	.25
Rev. G. A. Hathaway.....	2.25
Rev. Burton L. Hess.....	.50
Rev. Pierre Hevey.....	18.00
C. J. A. Holmgren.....	.25
Rev. John Kamm.....	1.00
Rev. N. E. Kron.....	1.00
Jacob Koplowitz .....	1.00
Rev. J. B. Lemon.....	1.75
Rev. Adolphus Linfield.....	.50
Rev. B. W. Lockhart.....	.50
Rev. F. X. Lyons.....	.50
Rev. J. J. Lyons.....	8.25

# INCIDENTAL EXPENSES.

49

Rev. J. W. MacCullum.....	\$0.75	
Rev. G. A. Miller.....	2.75	
Rev. E. J. Palisoul.....	.50	
Perekliis Papageorgeou .....	.25	
Rev. John B. Puchala.....	20.00	
Herman Rodelsperger.....	.50	
Rev. Millard L. Robinson.....	2.00	
Rev. J. E. Robbins.....	.50	
Rev. Samuel Russell .....	6.00	
Rev. P. E. Sandberg .....	1.00	
Rev. John C. Smith .....	.50	
Edward C. Smith.....	1.50	
Rev. G. J. Steinert.....	.75	
Albert Thompson .....	.50	
Rev. Florian Widman.....	2.75	
T. E. Nordberg.....	.25	
		<hr/>
		\$165.00

## DAMAGES AND JUDGMENTS.

May G. Adams and May G. Adams, Ex.....	\$100.00	
George M. Davis .....	19.00	
Herman Fischer .....	481.00	
A. L. Gadbois .....	20.00	
Albert J. Gouin.....	25.00	
Mary Unas .....	60.00	
Louis Vogel .....	20.00	
		<hr/>
		\$725.00

## CITY COUNCIL AND COMMITTEES.

Boston Badge Co., junk badges.....	\$30.00	
Harry W. Spaulding, incidentals, including postage .....	6.31	
		<hr/>
		\$36.31

## TEAMS FOR COUNCIL AND COMMITTEES.

E. S. Beauregard.....	\$5.00	
Charles Boisclair .....	10.00	
Boyd Brothers .....	15.00	
Brooks & Vogel .....	5.00	
C. S. Fifield.....	12.00	
W. J. Freeman.....	30.00	
W. Y. Hadlock & Co.....	30.00	
H. H. Lamoureux.....	20.00	
Manchester Automobile Garage .....	35.00	
James W. Richards .....	15.00	
		<hr/>
		\$177.00

## CITY SCALES.

L. B. Bodwell & Co., coal.....	\$24.00	
E. W. Poore, wood .....	8.00	
		<hr/>
		\$32.00

## MAYOR.

W. P. Goodman, paper, diaries.....	\$4.00	
J. J. Holland, soap .....	1.50	
Municipal Journal & Engineer, balance due on subscription .....	.50	
E. A. Stratton Co., paper, copy holder.....	1.50	
Temple & Farrington Co., basket, N. H. Reg- isters .....	1.87	
Temple & Farrington Co., paper, envelopes, books .....	8.85	
J. B. Wilson, repairing clock .....	2.00	
		<hr/>
		\$20.22

## TAX COLLECTOR.

Brandt Cashier Co., 1 automatic cashier....	\$150.00	
E. H. Clough, stamps, and stamped envel- opes .....	142.88	
George E. Morrill, expenses visiting sundry cities in interest of collector's department,	10.75	
George E. Morrill, paid for postage .....	148.00	
Christ Pattazo, printing and posting tax cir- culars in Greek language.....	10.00	
E. A. Stratton Co., 3 books.....	6.00	
Temple & Farrington Co., books, envelopes, card cabinet, cards, etc .....	68.74	
Yawman & Erbe Manufacturing Co., 1 fil- ing case .....	12.40	
		<hr/>
		\$548.77

## CITY CLERK.

W. P. Goodman, stationery.....	\$4.75	
Novelty Co., adjusting typewriter .....	.75	
Rand, McNally & Co., 1 atlas .....	10.50	
Remington Typewriter Co., ribbons.....	1.93	
Remington Typewriter Co., McMillan record books .....	140.80	
Edward C. Smith, paid for postals, express, stamped envelopes, etc.....	22.97	

## INCIDENTAL EXPENSES.

51

Temple & Farrington Co., books and stationery .....	\$34.48	
Alden R. Vaughan & Co., 1 pencil sharpener, .....	3.50	
Western Union Telegraph Co., clock rental.. ..	12.00	
		<hr/>
		\$231.68

## CITY TREASURER.

Amoskeag National Bank, rent of safety deposit boxes .....	\$15.00	
F. L. Allen, paid for blotting paper, ink.....	1.25	
F. H. Blackbird, pens.....	2.50	
W. P. Goodman, stationery .....	6.77	
Hall Brothers, pens .....	1.25	
Ideal Stamp Co., 1 dater.....	1.00	
Manchester National Bank, rent of safety deposit boxes .....	50.00	
New England Telephone & Telegraph Co., exchange service .....	1.50	
Office Toilet Supply Co., service.....	6.50	
Stewart, Warren & Co., lithographed checks and register sheets .....	16.50	
E. A. Stratton Co., 6 cards.....	1.00	
Temple & Farrington Co., books and stationery .....	31.84	
Alden R. Vaughan & Co., 1 pencil sharpener, .....	3.50	
		<hr/>
		\$138.61

## COURT HOUSE.

Gustave F. Hecker, janitor .....	\$600.00	
Maxwell Ice Co., wood.....	7.00	
Moore & Preston Coal Co., coal.....	319.46	
People's Gas-Light Co., gas.....	37.62	
		<hr/>
		\$964.08

## BUILDING INSPECTOR.

C. A. Hoitt Co., 1 typewriter desk.....	\$18.50	
Melvin & Fitts, carbon paper.....	.50	
New England Telephone & Telegraph Co., use of telephones.....	54.00	
New England Telephone & Telegraph Co., moving telephone .....	1.91	
Novelty Co., 1 Fox typewriter, 1 ribbon.....	90.52	
E. A. Stratton Co., envelopes.....	6.00	
		<hr/>
		\$171.43



## CITY SOLICITOR.

G. A. Wagner, expenses incurred visiting Pittsfield, Centre Barnstead, Chichester, securing evidence.....	\$20.60
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## FOWLS KILLED BY DOGS.

F. H. Bates.....	\$1.48
Arthur B. Campbell.....	17.50
F. W. Griffin .....	9.00
W. E. Lovering .....	7.00
	<hr/>
	\$34.98

## INSURANCE PREMIUMS.

W. G. Berry .....	\$67.50
George Blanchet .....	37.50
Robert R. Chase .....	60.00
Clough & Parker .....	177.50
Samuel H. Connor .....	30.00
DeCourcy & Holland .....	60.00
John Dowst .....	65.00
Clarence M. Edgerly .....	90.00
Everett & Bunton .....	67.50
Robert J. Hayes .....	30.00
Lawrence A. O'Connor .....	50.00
John A. Sheehan .....	127.50
	<hr/>
	\$862.50

## ELECTION EXPENSES.

Ashley A. Amlaw, labor and material, ward 6 wardroom .....	\$32.29
A. Blanchette & Son, fixing keys, ward 2 wardroom .....	2.00
Charles Boisclair, carrying ballots from wardroom to city hall .....	3.00
T. J. Briggs, pipe and labor, ward 5 wardroom .....	13.14
Jeremiah Connor, paid for postage, ward 9..	.60
John J. Connor, barrels, sawdust, labor, ward 10 .....	5.00
Patrick Conway, labor, ward 5 wardroom..	13.50
Farrell Brothers, electric labor and material, wards 2 and 9 .....	8.54
D. O. Fernald, storing voting booths, ward 3, 2 years .....	48.00

W. J. Freeman, carrying ballots to and from ward 5 .....	\$3.00
W. P. Goodman, stationery, etc. ....	20.70
D. A. Gallagher, rent of Mechanics' hall, ward 3 election .....	75.00
James Hargreaves, carrying ballots to and from ward 10 .....	5.00
G. D. Hebert, wood and coal, ward 5.....	16.50
Head & Dowst Co., material and labor, ward 7 .....	36.26
Frederick Hoffman, cleaning ward 8 ward-room before and after election, and sawdust .....	5.10
C. A. Hoitt Co., use of chairs and tables...	.75
J. N. Kendall, lamps and labor, ward 7 ward-room .....	4.65
Patrick J. Keane, lumber and labor, ward 5 wardroom .....	44.59
Gedeon Lariviere, use of store, ward 9 election .....	50.00
Frank V. Manseau, carpenter and electric work, etc., ward 3 .....	28.00
Maxwell Ice Co., wood, ward 2 wardroom...	2.00
Mrs. M. C. Morey, cleaning ward 10 ward-room .....	3.00
McKelvie & Craig, cleaning ward 6 ward-room before and after election.....	15.00
Almon O. Oviatt, stationery, postage, labor, ward 10 .....	7.50
Pike & Heald Co., use of stove and setting up, ward 2 .....	4.25
Harry A. Piper, labor and material, ward 3 wardroom .....	24.33
J. J. Quinn, putting up booths, ward 1 ward-room .....	6.00
George P. Rand, setting up and taking down booths, ward 7 .....	5.00
G. W. Reed, hack for carrying ballots.....	10.00
A. Rousseau, labor, ward 10 wardroom.....	8.50
J. A. Scully, use of tables, ward 3.....	3.50
J. A. Scully, use of tables, chairs, cuspidors, ward 8 wardroom .....	21.70
John B. Varick Co., paper, ward 7.....	1.84

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 \$528.24

## REPORT OF THE CITY AUDITOR.

## SUNDRIES.

American Express Co., express on reports..	\$8.21	
F. L. Allen, expenses to Boston and Concord, sundry times .....	36.67	
E. H. Clough, stamps and postal cards.....	150.00	
C. B. Clarkson, weighing coal.....	3.00	
First Light Battery, firing Fourth of July salute .....	25.00	
W. P. Goodman, city directories .....	122.50	
Town of Goffstown, taxes .....	2.34	
G. LaFontaine, M. D., care of John Moore, injuries sustained in employ of city.....	4.00	
B. C. Lancy, duplicate taxes, and purchased of said Lancy .....	76.13	
Manchester Traction, Light & Power Co., electric lights, ward 10 engine house.....	26.86	
New England Telephone & Telegraph Co., use of telephone, city physician.....	31.31	
Edward C. Smith, return of 631 names of children not returned by physicians.....	157.75	
Water commissioners, use of water, city farm .....	10.00	
Water commissioners, use of water, ward five wardroom .....	12.00	
Water commissioners, use of water, Battery building .....	7.50	
		\$673.27
Total expenditures .....		\$6,119.94
Transferred to unappropriated money.....		1,880.06
		<u>\$8,000.00</u>

## City Officers' Salaries.

Appropriation .....	\$26,700.00	
Transferred from unappropriated money....	723.13	
		\$27,423.13

## EXPENDITURES.

## CENTRAL DEPARTMENT.

Eugene E. Reed, mayor.....	\$3,000.00
Richard J. Barry, acting mayor.....	58.33
Fred L. Allen, city treasurer.....	1,625.00

Edward C. Smith, city clerk.....	\$1,350.00
Edward C. Smith, clerk of committees.....	200.00
George E. Morrill, tax collector.....	1,500.00
Edwin C. Paul, deputy collector.....	800.00
A. S. Rich, deputy collector.....	800.00
Denis Vigneault, deputy collector.....	800.00
George A. Wagner, city solicitor.....	800.00
Edwin S. Foster, building inspector.....	720.41
S. Andrew Sprague, building inspector.....	596.25
James R. Ferson, city messenger.....	850.00
Gilbert Lyons, city weigher.....	500.00
John J. Madden, acting city weigher.....	19.20
Harry W. Spaulding, clerk common council	100.00
Horace Millett, bath-house caretaker.....	133.33
Susie E. Wason, mayor's clerk.....	660.00
Eva G. Jones, clerk for city clerk.....	650.00
Eva B. Larivee, clerk for city clerk.....	215.00
Miranda M. Therrien, clerk for city clerk...	337.50
Mabel L. How, treasurer's clerk.....	569.88
Mrs. Blanche E. Wheeler, treasurer's clerk..	322.61
May W. Davis, clerical services, tax collector	90.37
Edward Hubbell, clerical services, tax collector	15.75
Robert A. Morrill, clerical services, tax collector	56.75

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\$16,770.38

## CITY PHYSICIAN AND OVERSEERS OF POOR.

George L. Bastian, M. D., city physician....	\$600.00
Michael Herbert, ward 1.....	50.00
D. G. Andrews, ward 2.....	50.00
Joseph L. Boudreau, ward 3.....	50.00
Charles B. Clarkson, ward 4.....	50.00
Thomas F. Sheehan, ward 5.....	50.00
John F. Healy, ward 6.....	50.00
William Marshall, ward 7.....	50.00
George W. Flint, ward 8.....	50.00
Philip Pellerin, ward 9.....	50.00
Peter J. Charron, ward 10.....	50.00
Thomas C. Stewart, clerk.....	125.00

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\$1,225.00

## SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Charles W. Bickford, school superintendent..	\$2,300.00
Curtis W. Davis, truant officer.....	1,000.00
Harry L. Davis, clerk of school board.....	150.00

William Parker Straw, president of common council, <i>ex officio</i> .....	\$10.00	
Elmer D. Goodwin, ward 1.....	10.00	
James A. Sayers, ward 1.....	10.00	
George M. Davis, ward 2.....	10.00	
Allan M. Wilson, ward 2.....	10.00	
Joel S. Daniels, ward 3.....	10.00	
Frank L. Downs, ward 3.....	10.00	
N. L. Colby, ward 4.....	10.00	
William A. Phinney, ward 4.....	10.00	
John F. Lee, ward 5.....	10.00	
Dennis F. O'Neil, ward 5.....	10.00	
Harry L. Davis, ward 6.....	10.00	
Maurice Watson, ward 6.....	10.00	
Edward B. Woodbury, ward 7.....	10.00	
Edson S. Heath, ward 7.....	10.00	
W. B. Mitchell, ward 8.....	10.00	
Frank A. Cadwell, ward 8.....	10.00	
T. F. Cronin, ward 9.....	10.00	
Arthur L. Prince, ward 9.....	10.00	
Francis X. Lyons, ward 10.....	10.00	
John H. Rice, ward 10.....	10.00	
		<hr/>
		\$3,660.00

## BOARD OF ALDERMEN.

Ernest W. Weisner, ward 1.....	\$200.00	
Joseph H. Geisel, ward 2.....	200.00	
Joseph H. Geisel, on account of 1907 salary	9.00	
Fred O. Parnell, ward 3.....	200.00	
Albert T. Barr, ward 4.....	200.00	
Richard J. Barry, ward 5.....	200.00	
Andrew B. Bunton, ward 6.....	200.00	
Robert Edgar, ward 7.....	200.00	
James E. McDonald, ward 8.....	200.00	
Gideon Lariviere, ward 9.....	200.00	
John J. Connor, ward 10.....	200.00	
		<hr/>
		\$2,009.00

## ELECTION OFFICERS.

Inspectors of checklists and interpreters....	\$2,558.75	
Election inspectors .....	400.00	
Moderators .....	150.00	
Selectmen .....	450.00	
Ward clerks .....	200.00	
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		\$3,758.75
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Total expenditures .....		\$27,423.13
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## Assessors' Department.

Appropriation .....	\$8,500.00	
Received from engineer's department.....	800.00	
		<u>\$9,300.00</u>

## EXPENDITURES.

## SALARIES.

George A. Clark, chairman.....	\$1,500.00	
William P. Farmer .....	1,500.00	
Joseph O. Tremblay .....	1,500.00	
		<u>\$4,500.00</u>
Arthur W. Rowell, clerk of board.....		\$1,200.00

## CLERICAL SERVICES.

Albert T. Barr .....	\$129.25	
J. W. Z. Bernard .....	128.50	
Harry J. Briggs .....	750.00	
Frank Boisclair .....	37.50	
Charles W. Brown .....	129.25	
Fred R. Currier .....	237.00	
James Costakis .....	42.50	
Wladslaw Chernieski .....	32.50	
Alfred Forant .....	129.25	
John F. Gillis .....	32.50	
C. C. Hardy .....	78.75	
Alec Houlde .....	28.75	
Donat Lefebvre .....	33.75	
Arthur Moreau .....	33.00	
John Montplaisir .....	37.50	
William J. Murphy .....	32.50	
Alphonse Regnier .....	37.50	
Harry L. Rose .....	22.50	
George F. Sheehan .....	37.50	
L. M. Streeter .....	37.50	
George Taylor .....	37.50	
C. D. Trudell .....	30.00	
Max Zschernig .....	32.50	
		<u>\$2,127.50</u>

## USE OF TEAMS.

Bailey & Co. ....	\$3.00
Boyd Brothers .....	15.00
Brooks & Vogel .....	35.00
Fifield & Brown .....	3.00
Charles S. Fifield .....	3.00
W. J. Freeman .....	8.00
A. L. Gadbois .....	21.00

E. G. Libbey .....	\$33.50
George W. Reed .....	2.50
James W. Richards .....	9.00
L. M. Streeter .....	22.50
George Taylor .....	7.50

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 \$163.00

## SUPPLIES.

C. W. Anderson & Co., repairing clock.....	\$2.75
Remy Bechard, printing names on blanks..	7.00
L. B. Bodwell & Co., ice.....	6.00
John B. Clarke Co., printing and advertising notice .....	29.58
E. H. Clough, stamped envelopes.....	76.96
Farrell Brothers, electric fans, switches....	31.50
I. Gagne & Co., 1 table.....	38.00
John F. Gillis, furnishing commercial re- ports .....	18.00
W. P. Goodman, stationery.....	16.78
Peter Harris, locks and repairs.....	3.85
Kee Lox Manufacturing Co., carbon paper..	1.50
L'Avenir National, advertising .....	17.88
J. H. Mendell Co., lumber and labor.....	12.50
New England Telephone & Telegraph Co., use of telephone .....	56.40
Office Toilet Supply Co., toilet service.....	13.00
Powell & Clarkson, 1 case of drawers.....	40.00
Leo Richard & Co., advertising.....	11.10
Ruemely Press, card index .....	5.00
Stevens & Bradley, valves, nips, couplings..	4.49
Lilla D. Stott, mortgages, deeds, discharges, etc. ....	192.46
E. A. Stratton Co., printing and stationery..	123.25
Temple & Farrington Co., books and binding books .....	100.00
J. O. Tremblay, cash paid:	
Express, carfares, postage, expenses to Nashua and Boston sundry times for records .....	185.87
Expenses of Assessors' meeting.....	21.85
Union Publishing Co., advertising.....	22.26
John B. Varick Co., engineering supplies...	269.58

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 \$1,307.56

Total expenditures .....	\$9,298.06
Transferred to unappropriated money.....	1.94

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 \$9,300.00
 

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## Auditor's Department.

Appropriation .....	\$2,300.00
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## EXPENDITURES.

## LABOR.

James E. Dodge, salary as auditor.....	\$1,337.50	
Lizzie M. Cogswell, services as clerk.....	830.00	
		\$2,167.50

## SUPPLIES.

L. M. Cogswell, cash paid:		
Stationery, laundry, postage, postals, etc...	\$17.37	
James E. Dodge, cash paid:		
Express, delivering city reports.....	2.45	
A. M. Finney, cleaning rug.....	.72	
W. P. Goodman, books and stationery.....	6.70	
Head & Dowst Co., repairing chair.....	2.48	
Chas. A. Hoitt Co., clothes pole, chair.....	18.00	
Kee Lox Manufacturing Co., carbon paper..	6.00	
Municipal Journal & Engineer, 1 subscrip- tion to November, 1909, inclusive.....	3.00	
Remington Typewriter Co., 1 ribbon.....	.75	
J. J. Shannon & Co., paper and manuscript covers .....	12.40	
George E. Pearson, cleaning clock.....	.50	
Temple & Farrington Co., binding books, paper .....	6.34	
Temple & Farrington Co., blank books.....	24.00	
John B. Varick Co., paper, tacks, ink eras- ers, etc. ....	3.16	
Samuel Ward Company, paper No. 50.....	2.15	
J. A. Williams, printing billheads, envel- opes, etc. ....	20.50	
		\$126.52

Total expenditures .....	\$2,294.02
Transferred to unappropriated money.....	5.98

\$2,300.00
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## Mayor's Incidentals.

Appropriation .....	\$300.00
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## EXPENDITURES.

Charles S. Fifield, use of team.....	\$3.00	
W. Y. Hadlock & Co., use of automobile....	10.00	
E. G. Libbey, use of team.....	5.00	
Eugene E. Reed, incidentals .....	272.00	
		<u>\$290.00</u>
Total expenditures .....		\$290.00
Transferred to unappropriated money.....		10.00
		<u>\$300.00</u>

## Street and Park Commission.

Appropriation .....	\$3,300.00	
Transferred from unappropriated money....	6,761.77	
		<u>\$10,061.77</u>

## EXPENDITURES.

## SALARIES.

William McElroy, chairman.....	\$750.00	
Samuel J. Lord .....	1,100.04	
Byron Worthen .....	750.00	
		<u>\$2,600.04</u>

## LABOR.

## Division No. 2:

January .....	\$254.22	
February .....	243.85	
March .....	245.25	
April .....	294.60	
May .....	256.30	
June .....	371.44	
July .....	298.58	
August .....	234.33	
September .....	236.33	
October .....	184.84	
November .....	182.50	
December .....	231.67	
		<u>\$3,033.91</u>

## Division No. 7:

January .....	\$84.00	
February .....	84.00	
March .....	84.00	
April .....	105.00	

May .....	\$84.00
June .....	105.00
July .....	84.00
August .....	42.00

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 \$672.00

## Division No. 10:

January .....	\$133.00
February .....	134.00
March .....	137.00
April .....	160.00
May .....	129.00
June .....	160.00
July .....	130.00
August .....	97.50
September .....	70.00
October .....	58.00
November .....	57.00
December .....	72.00

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 \$1,337.50

## SUPPLIES, ETC.

Boston & Maine Railroad, freight.....	\$2.21
L. B. Bodwell & Co., ice.....	6.00
Bridge-street Automobile Garage, labor and stock, making drawer fasteners.....	5.00
John B. Clarke Co., printing, binding, adver- tising .....	161.80
Harrie H. Clement, carfares, express, note books, etc.....	42.36
C. M. Dodge, M. D., attendance, A. Gagnon..	5.00
Farrell Brothers, switch and labor.....	1.45
W. P. Goodman, stationery .....	33.66
Globe-Wernicke Co., fasteners and attach- ments for filing cabinet .....	14.00
Hardy Printing Co., carbon paper .....	4.66
Municipal Journal & Engineer, 1 subscrip- tion .....	3.00
William McElroy, expenses of commission- ers to Boston and return, sundry times..	32.79
New England Telephone & Telegraph Co., use of telephones .....	158.99
E. L. Powers Co., subscription to "Good Roads" .....	1.00
J. W. Stockbridge, paper.....	2.75
Temple & Farrington Co., carbon paper, eye- lets, binding books, 2,500 sheets and print- ing .....	77.40



Union Publishing Co., advertising notice....	\$9.49	
John B. Varick Co., glass, hooks, wire.....	1.21	
J. Arthur Williams, printing blanks .....	29.00	
Frank E. Wood, pens .....	1.50	
Yawman & Erbe Manufacturing Co., guides, sections, ends .....	50.90	
		<u>\$644.17</u>

## DIVISION SUPERINTENDENTS.

George P. Ames, division No. 2.....	\$819.15	
Charles Francis, division No. 7.....	500.00	
Alphonse Laberge, division No. 10.....	455.00	
		<u>\$1,774.15</u>
Total expenditures .....		<u><u>\$10,061.77</u></u>

## Repairs of Highways.

Appropriation .....	\$49,200.00	
Received for labor and material sold .....	1,243.24	
		<u>\$50,443.24</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$297.81	
February .....	818.79	
March .....	406.43	
April .....	440.48	
May .....	1,991.99	
June .....	4,360.05	
July .....	2,861.99	
August .....	2,411.24	
September .....	3,337.55	
October .....	1,643.71	
November .....	1,769.07	
December .....	1,163.20	
		<u>\$21,502.31</u>
Division No. 4:		
April .....	\$150.59	
May .....	10.00	
July .....	11.61	
August .....	70.67	
October .....	41.25	
		<u>\$284.12</u>

# REPAIRS OF HIGHWAYS.

63

## Division No. 5:

March .....	\$9.25
April .....	10.00
May .....	8.00
June .....	111.12
July .....	185.50
August .....	36.50
September .....	159.62
October .....	154.87
December .....	77.12

\$751.98

## Division No. 7:

January .....	\$75.12
February .....	99.50
March .....	120.79
April .....	341.50
May .....	662.41
June .....	1,056.71
July .....	244.99
August .....	466.69
September .....	270.25
October .....	73.34
November .....	13.25
December .....	93.23

\$3,517.78

## Division No. 8:

April .....	\$18.56
May .....	3.50
June .....	28.00

\$50.00

## Division No. 9:

June .....	\$115.74
August .....	288.84
September .....	482.59
October .....	373.85
November .....	129.48
December .....	142.86

\$1,533.36

## Division No. 10:

February .....	\$18.50
March .....	12.75
April .....	340.74
May .....	353.22
June .....	1,366.42
July .....	233.86
August .....	1,122.10
September .....	2,764.06

October .....	\$1,733.85	
November .....	1,397.83	
December .....	1,230.61	
		<hr/>
		\$10,573.94

## BLACKSMITHING AND REPAIRS.

American Locomotive Co., clevises and pins and repairing road roller .....	\$31.50	
Buffalo Steam Roller Co., plates, bracket, grate bar rest .....	7.50	
S. P. Dodge Co., setting tire, etc.....	8.30	
Drew Machinery Agency, stock and labor...	6.35	
Good Roads Machinery Co., castings for road machine .....	2.55	
Gedeon Lariviere, carpenter work .....	106.00	
Manchester Supply Co., galvanized cross....	.24	
Manchester Traction, Light & Power Co., electricity, and work on crusher .....	32.94	
Pike & Heald Co., pipe, couplings, packing, etc. ....	193.94	
Robie Consolidated Concrete Co., repairs...	467.92	
Sessions Foundry Co., castings .....	22.68	
		<hr/>
		\$879.92

## STONE AND GRAVEL.

Edwards O. Dodge, stone chips.....	\$5.00	
Eugene Libbey, gravel .....	12.70	
John Lovering, gravel .....	4.70	
Massachusetts Broken Stone Co., broken stone .....	1,567.60	
Oliver Merrill, gravel .....	1.70	
A. N. Nettle, gravel .....	5.00	
Winchester Stone Co., stone.....	5,083.94	
		<hr/>
		\$6,680.64

## OTHER SUPPLIES.

Annis Flour & Grain Co., lanterns.....	\$2.50	
Barrett Manufacturing Co., tarvia.....	475.66	
Good Roads Machinery Co., chain and coup- lings .....	28.86	
Head & Dowst Co., lumber and posts.....	4.26	
Ingersoll-Rand Co., supplies .....	293.40	
Manchester Oil & Supply Co., grease.....	3.00	
J. H. Mendell Co., lumber, Valley cemetery bank wall .....	100.06	
H. W. Parker, lime and oatmeal.....	12.35	

People's Gas-Light Co., coal tar.....	\$68.75	
Pike & Heald Co., brush, pipe couplings....	1.51	
John B. Varick Co., tools and hardware....	452.87	
Vacuum Oil Co., engine oil.....	11.25	
Arthur A. Warren, kerosene oil.....	76.00	
	<hr/>	\$1,530.47

## SUNDRIES.

American Express Co., express on yoke.....	\$7.65	
Boston & Maine Railroad, freight and car service .....	1,069.65	
L. B. Bodwell & Co., coal.....	515.45	
Albert Brown, labor removing tree.....	.50	
A. B. Black, 1 road scraper.....	200.00	
John H. Campbell, use of water, North Union street .....	3.00	
Water commissioners, water furnished crusher .....	22.50	
	<hr/>	\$1,818.75

Total expenditures .....	\$49,123.27
Transferred to unappropriated money.....	1,319.97
	<hr/>
	\$50,443.24
	<hr/> <hr/>

## New Highways.

Appropriation .....	\$4,000.00
	<hr/> <hr/>

## EXPENDITURES.

## LABOR.

Division No. 7:		
November .....	\$380.64	
December .....	123.75	
	<hr/>	\$504.39
Division No. 10:		
November .....	\$41.50	
	<hr/>	
Total expenditures .....	\$545.89	
Transferred to unappropriated money.....	3,454.11	
	<hr/>	
		\$4,000.00
		<hr/> <hr/>

## Snow and Ice.

Appropriation .....	\$9,000.00
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## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$167.34	
February .....	1,048.94	
March .....	1,173.70	
April .....	26.28	
December .....	374.30	
		\$2,790.56

## Division No. 4:

April .....	\$39.73
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## Division No. 7:

January .....	\$16.25	
February .....	125.52	
March .....	117.77	
April .....	17.25	
December .....	34.49	
		\$311.28

## Division No. 8:

March .....	\$30.75
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## Division No. 10:

January .....	\$765.03	
February .....	647.03	
March .....	811.56	
April .....	184.25	
December .....	354.99	
		\$2,762.86

## Commons:

January .....	\$26.34	
February .....	67.99	
		\$94.33

## SUNDRIES.

Boston & Maine Railroad, freight.....	\$2.28	
A. B. Black, balance due on gutter plow....	30.00	
Head & Dowst Co., lumber.....	9.82	
J. E. MacDonald, barrels .....	3.50	
J. H. Mendell Co., lumber and labor.....	5.75	
Pike & Heald Co., gaskets, glasses.....	.40	
John B. Varick Co., iron, shovels, scoops....	29.63	
		\$81.38

Total expenditures .....	\$6,110.89
Transferred to unappropriated money.....	2,889.11
	<u>\$9,000.00</u>



Damage of Land Taken for Highways.

Appropriation .....	\$3,700.00
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EXPENDITURES.

Elmer E. Brown .....	\$206.99
Celia Cotter .....	303.26
F. A. and N. T. Platts.....	1,130.70
Joseph Quirin .....	1,416.58
Philip Riley .....	587.85
	<hr/>
	\$3,645.38

Total expenditures .....	\$3,645.38
Transferred to unappropriated money.....	54.62
	<hr/>
	\$3,700.00

Watering Streets.

Appropriation .....	\$7,000.00
Received for labor .....	52.50
Transferred from unappropriated money....	1,091.28
	<hr/>
	\$8,143.78

EXPENDITURES.

LABOR.

Division No. 2:

January .....	\$78.75
February .....	244.56
March .....	164.25
April .....	41.72
May .....	140.37
June .....	1,238.96
July .....	1,077.19
August .....	327.58
September .....	998.49
October .....	242.72
November .....	13.92
December .....	70.40
	<hr/>
	\$4,638.91

## Division No. 7:

March .....	\$4.50
May .....	2.25
June .....	363.36
July .....	286.86
August .....	39.37
September .....	256.50
October .....	85.50
December .....	11.25

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 \$1,049.59

## Division No. 10:

January .....	\$2.00
February .....	18.62
May .....	20.00
June .....	287.50
July .....	298.75
August .....	103.75
September .....	248.00
October .....	98.00
November .....	8.37

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 \$1,084.99

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 SUPPLIES AND REPAIRS.

American Locomotive Co., hose connections, nozzles, iron, etc.....	\$18.00
L. B. Bodwell & Co., ice for fountains.....	45.42
Boston & Maine Railroad, freight.....	.50
Cornelius Callahan Co., hose cap with slot...	5.00
Drew Machinery Agency, tapping hydrant cap .....	.75
S. P. Dodge Co., setting bands, tires, etc....	10.80
A. L. Dyer, scrap leather .....	.75
James Francoeur, tapping and heeling boots,	4.00
Good Roads Company of America, "Terra- colio" .....	617.10
Globe Rubber Works, hose.....	305.27
W. E. Goodwin, gas cocks .....	.90
Head & Dowst Co., lumber and labor.....	1.65
Maxwell Ice Co., ice .....	47.63
Manchester Coal & Ice Co., ice.....	71.41
Pike & Heald Co., valves, couplings, repairs..	55.95
J. L. & H. K. Potter, washers.....	5.04
The Sessions Foundry Co., 6 basins.....	.93
John B. Varick Co., paint and hardware.....	179.19

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 \$1,370.29

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 Total expenditures .....

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 \$8,143.78
 

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## Paving Streets.

Appropriation .....	\$6,000.00	
Received for labor and material sold.....	12,939.09	
Transferred from unappropriated money...	3,505.06	
		<u>\$22,444.15</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
April .....	\$192.14	
May .....	245.52	
June .....	208.77	
July .....	186.34	
August .....	349.58	
September .....	476.54	
October .....	600.45	
November .....	601.23	
December .....	397.45	
		<u>\$3,258.02</u>
Division No. 7:		
September .....	\$1.12	
November .....	29.50	
		<u>\$30.62</u>
Division No. 9:		
September .....		\$40.25
Division No. 10:		
June .....	\$200.74	
July .....	207.57	
August .....	95.50	
September .....	551.90	
October .....	138.24	
November .....	32.00	
December .....	14.75	
		<u>\$1,240.70</u>

## SUNDRIES.

Amoskeag Manufacturing Co., cement.....	\$23.25
Charles A. Bailey, stone .....	9,294.63
L. B. Bodwell & Co., coal .....	16.98
C. S. Boston, stone.....	3.50
Boston & Maine Railroad, freight and car service .....	33.00
James F. Cavanaugh, labor, paving.....	1,740.80
Head & Dowst Co., lumber and labor .....	11.19
J. H. Mendell Co., lumber and labor.....	17.58

Paradise & Dionne, curbing.....	\$461.27	
Henry W. Parker, cement.....	879.38	
Pike & Heald Co., iron bushing, etc.....	.27	
Robie Consolidated Concrete Co., paving re- pairs .....	730.66	
Sessions Foundry Co., paving rammers, and labor making patterns .....	5.60	
John B. Varick Co., shovels, lantern globes, twine .....	21.45	
A. A. Warren, oil.....	15.00	
U. S. Wood Preserving Co., wood-paving block .....	4,620.00	
		<u>\$17,874.56</u>
Total expenditures .....		<u><u>\$22,444.15</u></u>

### Macadamizing Streets.

Appropriation .....	\$6,000.00	
Transferred from unappropriated money....	998.24	
		<u>\$6,998.24</u>

### EXPENDITURES.

#### LABOR.

#### Division No. 10:

July .....	\$1,365.41	
August .....	899.95	
September .....	403.02	
		<u>\$2,668.38</u>

#### FUEL, FREIGHT, HARDWARE, WATER.

L. B. Bodwell & Co., coal .....	\$371.78	
Boston & Maine Railroad, freight.....	.82	
John B. Varick Co., tools and hardware.....	114.10	
Water commissioners, use of water, crusher,	17.50	
		<u>\$504.20</u>

#### CASTINGS, REPAIRS, ETC.

American Locomotive Co., repairing boiler and road roller .....	\$17.00	
Buffalo Steam Roller Co., 1 steam roller..	3,500.00	
Buffalo Steam Roller Co., 1 yoke, scraper bracket, supplies .....	86.35	

Drew Machinery Agency, repairing pump and pulley .....	\$7.75	
Good Roads Machinery Co., supplies.....	67.40	
Manchester Traction, Light & Power Co., 1 circuit breaker, moving motor.....	58.23	
Pike & Heald Co., valves, bands, connections, etc. ....	9.13	
Vacuum Oil Co., oil.....	74.80	
Arthur A. Warren, kerosene oil.....	5.00	
		<hr/>
		\$3,825.66
		<hr/>
Total expenditures .....		<u><u>\$6,998.24</u></u>

## Grading for Concrete.

Appropriation .....	<u><u>\$3,500.00</u></u>
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## EXPENDITURES.

## LABOR.

Division No. 2:		
April .....	\$12.00	
May .....	28.39	
June .....	60.25	
July .....	5.25	
August .....	313.90	
September .....	516.20	
October .....	753.25	
November .....	282.48	
December .....	237.39	
		<hr/>
		\$2,209.11
Division No. 7:		
May .....	\$10.50	
June .....	1.75	
November .....	14.00	
December .....	41.00	
		<hr/>
		\$67.25
Division No. 10:		
May .....	\$5.75	
June .....	31.25	
July .....	18.50	
August .....	26.93	
September .....	64.43	
October .....	13.68	
December .....	20.37	
		<hr/>
		\$180.91



## REPORT OF THE CITY AUDITOR.

## SUNDRIES.

C. A. Bailey, circles, curbing.....	\$110.40	
Boston & Maine Railroad, freight.....	.25	
J. H. Mendell Co., lumber and labor .....	1.89	
Paradise & Dionne, circles and curbing.....	347.24	
Pike & Heald Co., tin, iron, labor.....	.70	
Robie Consolidated Concrete Co., sidewalk re- pairs .....	1.22	
John B. Varick Co., tools .....	7.65	
A. A. Warren, kerosene oil .....	10.00	
		<hr/>
		\$479.35
Total expenditures .....		<hr/>
		\$2,936.62
Transferred to unappropriated money .....		563.38
		<hr/>
		\$3,500.00
		<hr/> <hr/>

## Scavenger Service.

Appropriation .....	\$25,000.00	
Transferred from unappropriated money....	725.10	
		<hr/>
		\$25,725.10
		<hr/> <hr/>

## EXPENDITURES.

## LABOR.

Division No. 2;		
January .....	\$1,382.55	
February .....	1,350.00	
March .....	1,316.46	
April .....	1,801.79	
May .....	1,268.99	
June .....	1,450.76	
July .....	1,103.51	
August .....	1,078.03	
September .....	1,360.56	
October .....	1,065.82	
November .....	1,133.84	
December .....	1,339.08	
		<hr/>
		\$15,651.39

## Division No. 7:

January .....	\$233.12
February .....	229.62
March .....	235.16
April .....	293.00
May .....	200.50
June .....	218.75
July .....	171.50
August .....	171.06
September .....	215.25
October .....	171.50
November .....	217.87
December .....	223.25

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\$2,580.58

## Division No. 10:

January .....	\$261.59
February .....	428.09
March .....	310.58
April .....	479.16
May .....	418.75
June .....	409.42
July .....	356.44
August .....	341.20
September .....	412.08
October .....	336.83
November .....	329.82
December .....	457.12

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\$4,541.08

## SUNDRIES.

W. H. Bickford, contract work .....	\$1,922.64
Boston & Maine Railroad, freight .....	11.51
John B. Clarke Co., printing blanks .....	40.60
S. P. Dodge Co., spokes, felloes .....	5.25
Head & Dowst Co., lumber .....	1.44
Pike & Heald Co., couplings .....	.39
Levi J. Proctor, inspector of scavenger service .....	700.25
Ranno Saddlery Co., stitching canvas for wagon cover .....	9.00
John B. Varick Co., hardware .....	41.10
Watson Wagon Co., dump wagon .....	214.87
Arthur A. Warren, kerosene oil .....	5.00

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\$2,952.05

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Total expenditures .....

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\$25,725.10

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## Street Sweeping.

Appropriation .....	\$6,000.00	
Transferred from unappropriated money....	2,374.96	
		<u>\$8,374.96</u>

## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$62.61	
February .....	125.99	
March .....	93.34	
April .....	807.08	
May .....	426.37	
June .....	495.56	
July .....	511.08	
August .....	700.41	
September .....	987.62	
October .....	686.88	
November .....	412.48	
December .....	440.00	
		<u>\$5,749.42</u>

## Division No. 10:

February .....	\$13.50	
April .....	136.25	
May .....	596.85	
June .....	179.75	
July .....	67.37	
August .....	83.12	
September .....	447.71	
October .....	202.37	
November .....	118.62	
December .....	51.61	
		<u>\$1,897.15</u>

## SUNDRIES.

A. B. Black, 6 street cleaners.....	\$110.04	
Boston & Maine Railroad, freight.....	29.13	
G. W. Dodge Shoe Co., rubber boots.....	13.24	
J. L. & H. K. Potter, street sweeper .....	275.00	
Sessions Foundry Co., sprockets, making pattern .....	8.81	
H. Thompson, brooms and refilling sweepers .....	277.74	
John B. Varick Co., axle, tires, ash cans....	14.43	
		<u>\$728.39</u>
Total expenditures .....		<u>\$8,374.96</u>

## Bridges.

Appropriation .....	\$8,000.00	
Received for labor and material sold.....	470.36	
Transferred from unappropriated money....	5,442.37	
		<u>\$13,912.73</u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$116.32	
April .....	80.52	
May .....	73.76	
June .....	51.95	
July .....	275.45	
August .....	620.16	
September .....	162.15	
October .....	124.74	
November .....	317.18	
December .....	1,004.65	
		<u>\$2,826.88</u>
Division No. 4:		
July .....		\$28.00
Division No. 5:		
July .....		\$29.00
Division No. 7:		
June .....	\$49.00	
November .....	11.50	
		<u>\$60.50</u>
Division No. 9:		
June .....	\$14.00	
July .....	21.00	
September .....	5.50	
		<u>\$40.50</u>
Division No. 10:		
April .....	\$16.00	
July .....	49.99	
August .....	24.50	
September .....	1.75	
		<u>\$92.24</u>

## MATERIAL AND REPAIRS.

Amoskeag Manufacturing Co., piping and use of compressed air .....	\$27.39
Bachelor & Floyd, plank .....	48.40
A. T. Beaumier, rubber boots .....	7.00

Cavanaugh Brothers, plank .....	\$233.58	
Detroit Graphite Co., graphite paint.....	509.45	
Fellows, Clark & Co., plank .....	208.00	
B. F. Greer, plank .....	1,788.79	
Head & Dowst Co., lumber and posts .....	39.74	
W. Frank Kennedy, painting bridge and fence .....	30.08	
Gedeon Lariviere, carpenter work .....	46.25	
J. H. Mendell Co., lumber .....	91.98	
Henry W. Parker, cement and oatmeal.....	1,369.93	
People's Gas-Light Co., coal tar.....	55.00	
Pike & Heald Co., couplings, iron, labor....	1.07	
Sessions Foundry Co., castings and labor....	228.92	
United Construction Co., extra labor, Cohas bridge .....	132.96	
United Construction Co., steel beams .....	3,039.48	
United Construction Co., cleaning and paint- ing Granite bridge .....	2,493.01	
John B. Varick Co., nails, screws, iron.....	277.88	
Waterproof Paint Co., graphite .....	49.40	
A. A. Warren, kerosene oil .....	15.00	
West Side Lumber Co., lumber .....	75.36	
		<hr/>
		\$10,768.67

## SUNDRIES.

Boston & Maine Railroad, freight and car service .....	\$56.28	
E. P. Kittredge, railroad fare to Boston....	1.07	
Gilbert Lyons, surveying car load of lumber,	1.75	
E. J. & W. J. Quinn, railroad fare to Albany, N. Y .....	7.84	
		<hr/>
		\$66.94
		<hr/>
Total expenditures .....		\$13,912.73
		<hr/> <hr/>

## City Teams.

Appropriation .....	\$10,000.00	
Received for labor and material sold .....	171.09	
Overdraft .....	1.00	
Transferred from unappropriated money...	7,647.74	
		<hr/>
		\$17,819.83
		<hr/> <hr/>



## CITY TEAMS.

77

## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$417.17
February .....	478.88
March .....	590.78
April .....	826.11
May .....	501.43
June .....	555.69
July .....	606.62
August .....	486.69
September .....	599.86
October .....	490.13
November .....	438.67
December .....	610.61

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\$6,602.64

## Division No. 7:

July .....	\$1.75
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## Division No. 8:

May .....	\$8.75
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## Division No. 10:

January .....	\$38.00
February .....	32.00
March .....	30.00
April .....	40.00
May .....	34.75
June .....	51.24
July .....	29.75
August .....	29.75
September .....	35.00
October .....	28.00
November .....	29.75
December .....	35.00

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\$413.24

## GRAIN, HAY, STRAW.

Ame & Co.....	\$45.00
Arthur S. Brown.....	1,471.59
F. H. Masse & Co.....	954.80
McQuestion & Lewis .....	953.81
H. W. Parker .....	1.30

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\$3,426.50

## HARDWARE AND TOOLS.

Manchester Hardware Co.....	\$2.83
John B. Varick Co.....	681.37

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\$684.20

## HARNESSES AND REPAIRS.

Oliver Comire .....	\$247.15	
Kimball Carriage Co.....	9.00	
Ranno Saddlery Co.....	22.17	
Joseph Vogel & Co.....	98.45	
		<hr/>
		\$376.77

## LIVE STOCK, VETERINARY EXPENSES.

C. M. Bailey, V. S., attendance and medicine,	\$6.00	
Cavanaugh Brothers, horses .....	1,075.00	
Cavanaugh Brothers, mules, board and use of horses .....	1,085.90	
F. J. Clark, V. S., treating horse.....	5.00	
H. B. Dunton, V. S., attendance and medicine,	30.00	
Charles Francis, 2 horses, harnesses, cart, sled, etc.....	500.00	
J. L. Golden, V. S., attendance and liniment,	86.15	
A. J. Precourt, salts, iodine.....	3.50	
Thomas Welch, 1 pair horses and harnesses,	625.00	
		<hr/>
		\$3,416.55

## FUEL, GAS, WATER.

L. B. Bodwell & Co., coal .....	\$365.69	
People's Gas-Light Co., gas.....	143.00	
Water commissioners, use of water.....	80.00	
		<hr/>
		\$588.69

## LUMBER, REPAIRS, ETC.

J. J. Abbott, paper and hanging.....	\$20.11	
S. P. Dodge Co., carriage repairs.....	62.05	
Head & Dowst Co., lumber.....	86.91	
Luther Brothers Co., 1 grinder.....	11.87	
Gedeon Lariviere, carpenter work at city farm .....	77.00	
J. H. Mendell Co., lumber.....	75.47	
N. H. Chimney Sweep Co., sweeping and re- pairing city farm chimneys.....	24.50	
F. F. Osgood, belting .....	8.10	
Pike & Heald Co., stoves, pipe, etc.....	69.98	
Pike & Heald Co., steam heater, per contract, city farm .....	225.00	
Elmer E. Reed, masonwork.....	10.12	
West Side Lumber Co., sawing logs.....	18.55	
		<hr/>
		\$689.66

## SUNDRIES.

George P. Ames, 1 pair wheels.....	\$20.00	
Committee on city farm, rent of city farm, house and land, and 10 acres of land.....	855.00	
Everett & Bunton, insurance premium, city farm .....	10.00	
Knox & Morse Co., disinfectant.....	22.26	
Gilbert Lyons, weighing oats.....	1.40	
Manchester Traction, Light & Power Co., electric lights, city farm.....	50.90	
H. W. Parker, salt, soap, etc.....	7.06	
J. L. & H. K. Potter, 1 dump wagon, and 1 dump cart .....	286.00	
Stark Mills, duck .....	39.83	
Robert Stevens, sowing grain, city farm....	1.50	
C. D. Steele & Co., matches, soap, ginger, polish .....	2.46	
Union Publishing Co., advertising .....	1.80	
Arthur A. Warren, oil.....	5.00	
Watson Wagon Co., 1 dump wagon.....	214.87	
John Lawrence, labor, city farm .....	93.00	
		<u>\$1,511.08</u>
Total expenditures .....		<u><u>\$17,819.83</u></u>

## Repairs of Sewers.

Appropriation .....	\$8,000.00	
Received for labor and material sold .....	69.77	
		<u><u>\$8,069.77</u></u>

## EXPENDITURES.

## LABOR.

Division No. 2:		
January .....	\$540.07	
February .....	17.80	
April .....	43.62	
May .....	119.36	
June .....	334.92	
July .....	150.20	
August .....	592.60	
September .....	504.43	
October .....	332.81	
November .....	241.81	
December .....	510.24	
		<u>\$3,387.86</u>

## Division No. 7:

January .....	\$91.26	
November .....	78.62	
		<u>\$169.88</u>

## Division No. 10:

January .....	\$20.75	
February .....	7.00	
March .....	34.87	
April .....	8.75	
May .....	207.87	
June .....	43.75	
July .....	41.63	
August .....	162.84	
September .....	30.75	
October .....	28.00	
November .....	16.62	
December .....	187.99	
		<u>\$790.82</u>

## MATERIAL, LABOR, ETC.

American Locomotive Co., repairs of boiler..	\$5.00	
Barbour-Stockwell Co., track drains.....	23.50	
L. B. Bodwell & Co., coal.....	11.00	
Boston & Maine Railroad, freight.....	104.04	
Concord Foundry & Machine Co., crates and crating patterns .....	6.25	
Geo. W. Dodge Shoe Co., rubber boots .....	4.00	
A. L. Dyer, scrap leather.....	1.14	
Head & Dowst Co., brick.....	18.59	
W. F. Head & Son, brick.....	690.54	
R. E. McKean, expense of digging up sewer,	14.55	
Paradise & Dionne, catch-basin curbs.....	99.37	
Pike & Heald Co., scoops, pipe, valves.....	18.25	
Sessions Foundry Co., castings .....	766.63	
John B. Varick Co., hardware.....	63.90	
		<u>\$1,826.76</u>
Total expenditures .....		\$6,175.32
Transferred to unappropriated money.....		1,894.45
		<u>\$8,069.77</u>

## New Sewers.

Appropriation .....	\$25,000.00	
Received for labor and material sold.....	1,378.58	
		<u>\$26,378.58</u>

## NEW SEWERS.

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## EXPENDITURES.

## LABOR.

## Division No. 2:

January .....	\$1,282.98
February .....	136.80
March .....	25.48
April .....	93.08
May .....	12.76
July .....	340.61
August .....	456.15
September .....	756.38
October .....	9.87
November .....	302.59
December .....	329.04

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 \$3,745.74

## Division No. 7:

July .....	\$665.92
August .....	816.65
September .....	1,578.49
October .....	1,557.86
November .....	742.96
December .....	930.16

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 \$6,292.04

## Division No. 10:

June .....	\$32.50
July .....	63.00
September .....	246.73
October .....	42.23
November .....	51.25
December .....	84.87

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 \$520.58

## HARDWARE, SEWER PIPE, ETC.

A. T. Beaumier, rubber boots .....	\$7.00
Boston & Maine Railroad, freight.....	186.34
E. M. Bryant & Co., wire .....	1.32
Drew Machinery Agency, 1 yoke.....	1.00
G. W. Dodge Shoe Co., rubber boots.....	35.25
Head & Dowst Co., 1 idler.....	4.00
Manchester Supply Co., pipe.....	3,644.71
J. H. Mendell Co., sewer bracing, fence boards .....	262.75
Pike & Smith, plank.....	918.66
Pike & Heald Co., pipe, etc.....	7.59
B. H. Piper Co., handles.....	10.00
Mrs. Luther Proctor, logs for blasting.....	18.00
Sessions Foundry Co., frames.....	39.06
John B. Varick Co., tools and hardware.....	769.05

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 \$5,904.73



## BRICK, CEMENT, LUMBER.

Head & Dowst Co., lumber .....	\$3.75	
W. F. Head & Son, brick .....	88.01	
Henry W. Parker, cement .....	280.66	
		<u>\$372.42</u>

## SUNDRIES.

L. B. Bodwell & Co., coal.....	\$81.01	
Gustaf Hogland, splicing wire rope.....	3.00	
H. W. Parker, oatmeal .....	3.75	
John P. Russell, coal .....	12.93	
Arthur A. Warren, kerosene oil .....	55.00	
		<u>\$155.69</u>
Total expenditures .....		\$16,991.20
Transferred to unappropriated money.....		9,387.38
		<u>\$26,378.58</u>

## Commons.

Appropriation .....	\$4,500.00	
Received for labor and material sold .....	10.50	
		<u>\$4,510.50</u>

## EXPENDITURES.

## LABOR.

January .....	\$113.74	
February .....	122.78	
March .....	199.16	
April .....	266.69	
May .....	184.98	
June .....	270.08	
July .....	219.00	
August .....	183.23	
September .....	231.19	
October .....	210.35	
November .....	255.11	
December .....	431.52	
		<u>\$2,687.83</u>
Division No. 2:		
July .....	\$16.06	
September .....	17.50	
		<u>\$33.56</u>

# STARK PARK.

83

## ELECTRIC LIGHTS, GAS, WATER.

Manchester Traction, Light & Power Co., electric lights .....	\$36.00	
People's Gas-Light Co., gas .....	12.87	
Water commissioners, use of water .....	722.50	
		<u>\$771.37</u>

## REPAIRS AND GENERAL EXPENSES.

F. J. Bixby, plants and flowers.....	\$235.52	
E. M. Bryant & Co., repairing switch.....	.40	
G. W. Dodge Shoe Co., rubber boots .....	12.24	
S. P. Dodge Co., repairing wagon, 14 spokes..	10.90	
Mrs. Mary Dwyer, rent of barn.....	33.00	
C. A. Hoitt Co., burlap .....	6.00	
J. H. Mendell Co., lumber and labor.....	23.64	
Parnell Brothers, barrels.....	2.50	
Pike & Heald Co., pipe .....	.90	
Powell & Clarkson, filing saw.....	.40	
Robie Consolidated Concrete Co., sidewalk repairs .....	327.04	
Sessions Foundry Co., seat frames .....	8.84	
J. A. V. Smith Co., repairing horse lawn- mower .....	21.00	
John B. Varick Co., paint and hardware....	43.86	
		<u>\$726.24</u>
Total expenditures .....	\$4,219.00	
Transferred to unappropriated money .....	291.50	
		<u><u>\$4,510.50</u></u>

## Stark Park.

Appropriation .....	<u><u>\$1,000.00</u></u>
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## EXPENDITURES.

### LABOR.

May .....	\$84.48	
June .....	138.98	
July .....	102.14	
August .....	170.29	
September .....	120.75	
October .....	92.00	
November .....	76.70	
December .....	20.78	
		<u>\$806.12</u>

## SUNDRIES.

F. J. Bixby, plants .....	\$71.57	
Manchester Hardware Co., guards and sections .....	7.50	
Pike & Heald Co., pipe and cutting.....	.75	
John B. Varick Co., scythes, knives for mower .....	13.52	
Water commissioners, use of water.....	12.00	
		<hr/>
		\$105.34
		<hr/>
Total expenditures .....	\$911.46	
Transferred to unappropriated money.....	88.54	
		<hr/>
		\$1,000.00
		<hr/>
		<hr/>

## Derryfield Park.

Appropriation .....	\$1,000.00
	<hr/>
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## EXPENDITURES.

## LABOR.

January .....	\$35.01	
February .....	38.54	
March .....	10.00	
April .....	40.42	
May .....	96.85	
June .....	131.11	
July .....	189.14	
August .....	28.01	
September .....	160.50	
October .....	115.13	
November .....	27.34	
December .....	3.50	
		<hr/>
		\$875.55

## SUNDRIES.

W. G. Berry, insurance premium .....	\$5.00
F. J. Bixby, flowers .....	31.38
Head & Dowst Co., lumber.....	1.32
Pike & Heald Co., pipe, etc.....	3.96
John A. Sheehan, insurance premium .....	6.00

# MISCELLANEOUS PLAYGROUNDS.

85

John B. Varick Co., tools and hardware.....	\$18.38	
Water commissioners, use of water.....	25.50	
West Side Lumber Co., sawing logs.....	18.03	
		<u>\$109.57</u>
Total expenditures .....		\$985.12
Transferred to unappropriated money.....		14.88
		<u>\$1,000.00</u>

## Lafayette Park.

Appropriation .....	<u>\$2,000.00</u>
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### EXPENDITURES.

#### LABOR.

Division No. 10:		
June .....	\$559.37	
July .....	902.79	
August .....	445.84	
		<u>\$1,908.00</u>

#### SUNDRIES.

Pike & Heald Co., pipe .....	\$11.40	
John B. Varick Co., hardware.....	8.90	
		<u>\$20.30</u>
Total expenditures .....		\$1,928.30
Transferred to unappropriated money.....		71.70
		<u>\$2,000.00</u>

## Miscellaneous Playgrounds.

Appropriation .....	\$200.00	
Received for rent .....	55.00	
Transferred from unappropriated money....	21.84	
		<u>\$276.84</u>

### EXPENDITURES.

#### LABOR.

April .....	\$13.99	
May .....	3.64	
August .....	39.84	
		<u>\$57.47</u>

## SUNDRIES.

Dickey & Woodman, rent of land for ball ground .....	\$50.00	
J. H. Mendell Co., lumber .....	5.26	
Manchester Traction, Light & Power Co., poles .....	27.00	
Pike & Heald Co., pipe, etc.....	95.33	
John A. Sheehan, insurance premium.....	15.75	
John B. Varick Co., wire netting, spikes.....	3.65	
Water commissioners, use of water.....	22.38	
		<hr/>
		\$219.37
		<hr/>
Total expenditures .....		\$276.84
		<hr/> <hr/>

## City Yard.

Appropriation .....	\$6,000.00	
Transferred from unappropriated money..	2,041.17	
		<hr/>
		\$8,041.17
		<hr/> <hr/>

## EXPENDITURES.

## LABOR.

Division No. 2:		
April .....	\$67.18	
May .....	91.39	
June .....	231.58	
July .....	164.76	
August .....	138.62	
September .....	133.50	
October .....	75.81	
November .....	61.40	
December .....	155.06	
		<hr/>
		\$1,119.30

## SUNDRIES.

Amoskeag Manufacturing Co., land, on account .....	\$5,000.00	
Boston & Maine Railroad, freight and construction of side track .....	905.04	
B. F. Greer, posts.....	62.50	
Gedeon Lariviere, building fence .....	77.20	
H. J. Lawson, iron fence rail .....	65.00	
Manchester Traction, Light & Power Co., 1 pole .....	4.50	



J. H. Mendell Co., lumber and labor.....	\$594.31	
John B. Varick Co., nails, paint, iron, etc....	213.32	
		<hr/>
		\$6,921.87
Total expenditures .....		<hr/>
		\$8,041.17
		<hr/>

## Brown-Tail and Gypsy Moth.

Appropriation .....	\$5,000.00	
Received for labor and taxes .....	747.99	
		<hr/>
		\$5,747.99
		<hr/>

## EXPENDITURES.

## LABOR.

Commons:		
January .....	\$67.87	
February .....	17.87	
March .....	48.75	
April .....	56.25	
November .....	11.25	
December .....	7.50	
		<hr/>
		\$209.49
Munson-Whitaker Co.....		\$4,786.30

## INSPECTORS ON PRIVATE WORK.

Albert T. Barr.....	\$14.35	
Albert J. Dugre .....	33.08	
H. T. George.....	122.58	
Robert J. Hayes .....	45.85	
Charles Hazen .....	42.00	
T. F. Haggerty .....	40.95	
J. Arthur Lathe .....	68.95	
John J. McAllister, Jr.....	13.50	
William H. McQuade .....	35.44	
L. A. O'Connor .....	40.60	
		<hr/>
		\$457.30

## SUNDRIES.

John B. Clarke Co., printing circulars, blanks .....	\$32.57
John B. Clarke Co., advertising bids.....	9.00
E. H. Clough, stamped envelopes .....	56.20
Harry Eaton, refund, on account of error....	3.50
Head & Dowst Co., 1 pole.....	.50

Elmer R. Laing, overcharge on work.....	\$5.08	
Union Publishing Co., advertising bids.....	8.26	
John B. Varick Co., pruners .....	2.75	
John B. Varick Co., spray pump, hose, etc..	20.35	
		<u>\$138.21</u>
Total expenditures .....		\$5,591.30
Transferred to unappropriated money.....		156.69
		<u>\$5,747.99</u>

### Lighting Streets.

Appropriation .....	<u>\$60,500.00</u>
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#### EXPENDITURES.

##### Manchester Traction, Light & Power Co.:

	Charges.	Discounts.
January .....	\$4,379.21	\$3.38
February .....	4,386.67	
March .....	4,386.67	
April .....	4,386.67	
May .....	4,386.67	
June .....	4,402.84	
July .....	4,402.50	
August .....	4,409.17	
September .....	4,487.00	
October .....	4,492.13	
November .....	4,512.34	20.83
December .....	4,556.56	
	<u>\$53,188.43</u>	<u>\$24.21</u>
Less discount .....	24.21	
		<u>\$53,164.22</u>

#### GAS.

##### Welsbach Street Lighting Co.:

January .....	\$565.24
February .....	563.83
March .....	563.83
April .....	563.83
May .....	563.83
June .....	563.83

## ENGINEER'S DEPARTMENT.

89

July .....	\$569.68	
August .....	568.49	
September .....	582.12	
October .....	583.10	
November .....	586.31	
December .....	595.28	
	<hr/>	\$6,869.37

## SUNDRIES.

Manchester Automobile Garage, rent of automobile.....	\$5.00	
Total expenditures .....	\$60,038.59	
Transferred to unappropriated money.....	461.41	
	<hr/>	\$60,500.00
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## Engineer's Department.

Appropriation .....	\$8,600.00
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## EXPENDITURES.

## LABOR.

Samuel J. Lord, general engineer.....	\$1,099.92	
Harry J. Briggs .....	200.19	
Oliver W. Cushman .....	408.25	
Alfred T. Dodge.....	811.56	
Joseph A. Dusseault .....	222.93	
John J. McAllister, Jr.....	735.75	
Lawrence O'Connor .....	434.40	
George R. Prince .....	4.00	
George W. Wales .....	1,173.70	
Henry Worthen .....	713.25	
Harrie M. Young .....	973.00	
	<hr/>	\$6,776.95

## SUPPLIES, OFFICE EXPENSES.

Mrs. G. H. Allen, pencils.....	\$1.25	
American Technical Society, 1 set Cyclopædia of Civil Engineering, 8 volumes .....	21.60	
American Library Co., 1 March's Thesaurus Dictionary .....	15.00	
Bay State Stamp Works, pads.....	1.80	
L. B. Bodwell & Co., ice .....	7.00	

Boston & Maine Railroad, freight.....	\$0.30	
C. L. Berger & Sons, supplies and repairs ..	34.55	
John B. Clarke Co., printing annual report..	39.60	
Concord Foundry & Machine Co., sign hang- ers .....	38.88	
Oliver Comire, repairing harness .....	1.25	
Geo. W. Dodge Shoe Co., rubber boots.....	10.75	
Farrell Brothers, cord, plugs, labor.....	4.63	
Frank A. Gay, establishing street line of rangeway in land of Daniel Annis.....	3.50	
Harry L. Gould, bench mark report.....	12.00	
Head & Dowst Co., grade stakes.....	19.50	
Ideal Stamp Co., 1 stamp and pad.....	1.25	
Johnson's Bookstore, 1 field and office table..	2.06	
Ledder & Probst, tapes and 1 set curves.....	35.00	
C. F. MacCarty, painting and lettering street signs .....	90.00	
John J. McAllister, Jr., cash paid for car- fares, express, etc.....	16.08	
Bertrand L. Makepeace, tracing paper.....	3.00	
Manchester Hardware Co., nails and lock ..	1.32	
New England Telephone & Telegraph Co., use of telephones .....	26.48	
Powell & Clarkson, case for steel curves ....	3.00	
Ranno Saddlery Co., 1 bit .....	.50	
Remington Typewriter Co., 1 No. 10 type- writer .....	90.00	
Remington Typewriter Co., coupon ribbon book .....	7.00	
The Scarborough Co., 1 wall map.....	.98	
Wm. G. Stieren Co., 2 books.....	1.56	
* E. A. Stratton Co., bookcases, 4,000 cards....	27.00	
E. G. Soltmann, tracing paper, ink, pencils...	32.05	
Temple & Farrington Co., binding books...	2.55	
John B. Varick Co., 1 reckoning machine..	350.00	
John B. Varick Co., hardware, tapes, films, etc. ....	121.61	
		\$1,023.05

## SUNDRIES.

Board of Assessors, transferred from engineer's depart- ment for assessors' lot plans .....	\$800.00
Total expenditures .....	\$8,600.00

## Health Department.

Appropriation .....	\$11,500.00	
Transferred from unappropriated money ...	4,034.57	
	<hr/>	\$15,534.57
		<hr/>

## EXPENDITURES.

## SERVICES.

J. E. A. Lanouette, M. D., salary as member of board .....	\$200.00	
W. K. Robbins, salary as member of board..	200.00	
Wm. J. Starr, salary as member of board....	200.00	
William B. Blake, sanitary inspector.....	890.00	
John F. Looney, sanitary inspector.....	917.50	
Carl O. Seaman, plumbing and milk inspec- tor .....	957.00	
M. Alma Fracker, clerk.....	556.50	
	<hr/>	\$3,921.00

## PRINTING AND STATIONERY.

John B. Clarke Co., printing bulletins, li- censes, notices, etc.....	\$185.35	
John B. Clarke Co., reports .....	13.65	
W. P. Goodman, books and stationery .....	5.75	
E. A. Stratton Co., copy book and tags.....	5.25	
Temple & Farrington Co., book.....	1.50	
	<hr/>	\$211.50

## TEAMS AND CARFARES.

Bailey & Co.....	\$124.50	
W. B. Blake .....	55.50	
Fifield & Brown.....	38.00	
Charles S. Fifield .....	15.50	
W. J. Freeman .....	190.00	
M. A. Fracker .....	4.25	
A. L. Gadbois.....	37.00	
James Hargreaves .....	42.00	
John F. Looney .....	31.75	
Carl O. Seaman .....	22.30	
E. V. Turcotte .....	40.00	
	<hr/>	\$600.80

## OFFICE EXPENSES AND SUPPLIES.

American Express Co., express charges.....	\$11.05
Amoskeag Manufacturing Co., sulphuric acid,	1.68
Bausch & Lomb Optical Co., oil.....	.42
W. B. Blake, paid for telephone.....	.20
L. B. Bodwell & Co., ice.....	18.45
E. M. Bryant & Co., telephone arm and labor,	5.50
Carter, Rice & Co., gummed paper.....	10.50
Herbert Dunnington, antitoxin.....	534.72
W. E. Dunbar & Sons, coal.....	105.80
W. M. Eames Drug Co., antitoxin.....	6.80
M. A. Fracker, cash paid:	
Laundry, paper, postage, freight, etc.....	44.61
Dues for American Public Health Associ-	
ation .....	5.00
Granite State Rubber Co., gloves, tubing,	
atomizers .....	8.30
James W. Hill Co., sheeting, oilcloth.....	5.20
C. A. Hoitt Co., glasses, hassock.....	1.95
Library Bureau Co., index cards.....	3.00
Manchester Traction, Light & Power Co.,	
repairing stoves and express .....	3.85
New England Telephone & Telegraph Co.,	
use of telephone .....	81.05
Parke, Davis & Co., culture media.....	3.53
People's Gas-Light Co., gas.....	10.56
James H. Rhodes & Co., metal caps.....	.60
Schieffelin & Co., formaldehyde.....	154.00
C. O. Seaman, photographs, chemicals for lab-	
oratory .....	3.15
A. G. Straw, M. D., diphtheria examinations,	119.00
William J. Starr, paid expenses of board to	
Lynn, Mass., inspecting isolation hospital,	8.50
James Scully, chairs.....	14.75
John B. Varick Co., supplies .....	90.01
Walsh & Cummings, antitoxin and medicine,	1,625.00
	<hr/>
	\$2,877.18

## PEST HOUSE.

F. D. Leighton, plumbing repairs .....	\$4.10
Manchester Coal & Ice Co., coal.....	16.55
Manchester Traction, Light & Power Co.,	
lights .....	7.36
New England Telephone & Telegraph Co.,	
use of telephone .....	25.00



Pike & Heald Co., grate and lining.....	\$2.50
Mrs. A. D. Sherer, services .....	360.00
Mrs. A. D. Sherer, board of sundry persons,	50.72
Water commissioners, use of water.....	7.52
Maurice Watson, M. D., vaccinations, etc....	55.25

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 \$529.00

## ISOLATION HOSPITAL.

Amoskeag Manufacturing Co., remnants....	\$32.00
Barton Company, night robes .....	14.26
M. Ethel Bailey, nursing.....	8.00
A. G. Bean & Co., labor on closets and tanks,	4.95
T. J. Briggs, grate, lining and labor.....	7.50
George Blanchet, insurance premium.....	45.00
E. M. Bryant & Co., electric supplies and labor .....	5.45
Bunton & Bernard, lumber and labor on laundry .....	80.22
Connor Brothers, repairing steam and waste pipes .....	16.15
Katherine M. Crozier, nurse.....	84.00
Herbert E. Dunnington, medicine.....	196.25
Achsa A. Dorsey, nurse.....	60.00
C. DeMoulied & Co., chairs.....	6.45
W. E. Dunbar & Sons, coal.....	139.27
W. M. Eames Drug Co., medicine .....	2.11
Farrell Brothers, electric supplies and labor,	2.68
C. A. & A. W. Flint, wood.....	36.25
Charles M. Floyd, shirts.....	4.00
Mrs. Selina Flodin, services as matron.....	175.00
Mrs. Selina Flodin, board and washing, sun- dry persons.....	1,605.29
L. M. Folsom, cotton, sheets, pillow cases, etc. ....	64.86
Granite State Rubber Co., sheeting, gloves, tubing .....	15.37
John B. Hall Co., medicine .....	15.38
Head & Dowst Co., lumber and labor.....	17.85
C. A. Hoitt Co., crockery, glasses, etc.....	19.24
James W. Hill Co., blankets, cotton, cheese cloth .....	5.98
R. K. Horne, cups .....	5.50
Kerwin & Sheehan, medicine.....	58.20
Mary V. Lee, nurse .....	1,092.00
Frank D. Leighton, changing boiler, per con- tract .....	375.00

Frank D. Leighton, grates, poker, brush, labor .....	\$35.29
Zepherine Lupiene, nurse.....	63.00
Manchester Traction, Light & Power Co., lights .....	88.59
Manchester Traction, Light & Power Co., top for stove and labor .....	2.20
Manchester Coal & Ice Co., coal .....	183.06
Manchester Coal & Ice Co., ice .....	23.79
Katherine V. Martin, nurse.....	816.00
Lucy A. Miller, nurse .....	28.00
New England Telephone & Telegraph Co., use of telephone .....	54.00
F. E. Nelson, crockery, and racks.....	4.98
Thomas D. Paris, insurance premium.....	45.00
Mrs. C. E. Rydin, services as matron.....	125.00
Mrs. C. E. Rydin, board of sundry persons...	854.14
Mrs. C. E. Rydin, soap .....	3.50
Nellie M. Rugar, nurse.....	30.00
Mary E. Stearns, nurse.....	66.00
A. D. Sherer, labor and stock.....	28.64
James Scully, bedding, crockery, tables....	50.48
Lillian M. Squire, nurse.....	54.00
Diana Tousignant, nurse .....	138.00
M. L. Varney, nurse .....	116.00
Walsh & Cummings, tongue depressers, medicine .....	8.75
Water commissioners, use of water.....	41.75
F. W. Woolworth & Co., bed slippers.....	2.40
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\$7,056.78	

## SUPPLIES FOR ISOLATED FAMILIES.

W. B. Blake, wood and medicine, sundry families .....	\$1.70
Bourgeois & Parmaleau, groceries.....	8.47
Brook-street Market, groceries .....	18.92
P. J. Charron, groceries .....	11.25
J. B. Daigle, groceries.....	35.71
L. M. Folsom, sheets for fumigating schools,	15.86
A. L. Gadbois, burial of children.....	20.00
Gilbert Gonyeau, wood.....	3.00
John Healy, groceries.....	43.86
T. J. Labrecque, groceries .....	6.67
J. A. Lindquist, groceries.....	14.16
John F. Looney, groceries, quarantine officer .....	5.89

Manchester Coal & Ice Co., coal and wood..	\$5.90	
B. J. Mack, wood.....	1.00	
Manchester Grocery Co., groceries .....	10.49	
C. E. Newcomb, groceries .....	3.79	
O. H. Noury, groceries .....	5.69	
Parnell Brothers, groceries .....	7.55	
Frank I. Paige, groceries .....	40.88	
Edmond Pinard, groceries .....	6.50	
A. F. Precourt, medicine.....	.50	
Poore's Market, groceries .....	8.34	
Pulpit Farm Dairy Co., milk.....	.91	
J. P. Russell, coal .....	4.50	
Eugene Sigrist, groceries.....	8.84	
E. V. Turcotte, burial outfit .....	8.00	
Union Coal Co., wood .....	2.00	
Euclide Voisard, groceries.....	13.44	
Walsh & Cummings, medicine .....	2.03	
		\$315.85

## SUNDRIES.

W. B. Blake, paid for burying animals.....	\$2.50	
W. B. Blake, ice cream and milk samples...	.72	
John F. Looney, milk and cream samples...	11.63	
John F. Looney, burying animals .....	6.00	
C. O. Seaman, milk samples .....	1.61	
		\$22.46
Total expenditures .....		\$15,534.57

## City Library.

Appropriation .....	\$8,000.00
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## EXPENDITURES.

## LIBRARIAN AND ASSISTANTS.

F. Mabel Winchell, librarian .....	\$1,000.00	
Harold C. Brown .....	200.00	
Eugene Clark .....	128.30	
Mary Chamberlin .....	57.00	
Charles Costigan .....	99.95	
Carlton Hamer .....	48.30	
Louise H. Hazard .....	28.00	
Carl James .....	7.50	
Arthur Leavitt .....	174.55	
Charles S. Morgan .....	644.00	
William Vincent .....	185.00	
		\$2,572.60

## SUNDAY OPENING.

Peter Callaghan, police service .....	\$20.00	
Charles S. Morgan, labor.....	63.00	
Albro P. Reed, labor.....	64.00	
	<hr/>	\$147.00

## CATALOGUE AND SUPPLIES.

John B. Clarke Co., printing.....	\$40.85	
Edith O. Emery, labor.....	546.00	
Library Bureau, book, cards, cases, book truck, etc.....	291.70	
Louise E. Newell, labor.....	520.00	
Temple & Farrington Co., slips and cards...	15.56	
J. Arthur Williams, printing blanks, postals, cards .....	69.20	
F. M. Winchell, paid for cards.....	30.00	
	<hr/>	\$1,513.31

## BINDING, REBINDING, RESEWING.

Temple & Farrington Co.....	\$508.30
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## FUEL, INSURANCE, LIGHTS, TELEPHONE, WATER.

Clarence M. Edgerly, insurance premium....	\$125.00	
Manchester Traction, Light & Power Co., electric lights .....	307.64	
Moore & Preston Coal Co., coal.....	497.80	
New England Telephone & Telegraph Co., use of telephone.....	54.00	
People's Gas-Light Co., gas.....	37.73	
Water commissioners, use of water.....	13.63	
	<hr/>	\$1,035.80

## NEW BOOKS, MAGAZINES, PAPERS.

G. Waldo Browne.....	\$1.50	
City News Co.....	23.20	
John B. Clarke Co.....	12.00	
Herman Goldberger .....	341.63	
W. P. Goodman .....	230.14	
S. C. Gould .....	2.00	
W. A. Greenough & Co.....	3.00	
H. R. Hunting Co.....	39.55	
Hub Magazine Co.....	18.50	
Pilgrim Press .....	16.00	
Trustees of library .....	1,000.00	
H. W. Wilson Co.....	22.75	
	<hr/>	\$1,710.27

# FIRE DEPARTMENT.

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## SUNDRIES.

John Andrew & Son, book plates, 1,000 prints .....	\$15.00	
L. B. Bodwell & Co., ice.....	3.84	
C. B. Clarkson, weighing coal.....	6.00	
Alfred Desilets, cleaning .....	56.43	
A. L. Franks & Co., fixtures, lamps, labor....	22.95	
Head & Dowst Co., shelving.....	41.00	
C. A. Hoitt Co., linoleum and chairs.....	44.40	
Mrs. Kate Hussey, cleaning.....	130.10	
George Holbrook, labor on chairs and drawers .....	2.50	
J. H. Mendell Co., bookcases, repairs and material .....	51.76	
James W. Robinson, care of boiler.....	136.50	
John B. Varick Co., baskets.....	2.24	
		\$512.72
Total expenditures .....		<u>\$8,000.00</u>

## Fire Department.

Appropriation .....	\$80,650.00	
Transferred from unappropriated money....	7,968.45	
		<u>\$88,618.45</u>

## EXPENDITURES.

### SERVICES.

Thomas W. Lane, chief engineer.....	\$1,500.00	
Thomas F. Fitzsimmons, assistant engineer..	250.00	
Clarence R. Merrill, assistant engineer and clerk .....	325.00	
Arthur S. Provost, assistant engineer.....	250.00	
John F. Seaward, assistant engineer .....	250.00	
		<u>\$2,575.00</u>

### TEAMSTERS' AND ENGINEERS' PAY-ROLL.

January .....	\$3,275.97
February .....	3,472.75
March .....	3,480.00
April .....	3,488.75
May .....	3,469.50
June .....	3,492.00
July .....	3,469.50

August .....	\$3,469.50	
September .....	3,492.00	
October .....	3,469.50	
November .....	3,469.50	
December .....	3,492.00	
	<hr/>	\$41,540.97

## CALL MEMBERS.

Engine Company, No. 1 .....	\$1,688.00	
Engine Company, No. 2 .....	1,533.00	
Engine & Ladder Company, No. 3 .....	2,293.00	
Engine Company, No. 4 .....	1,848.00	
Engine & Ladder Company, No. 5 .....	2,293.00	
Engine & Ladder Company, No. 6 .....	2,293.00	
Engine Company, No. 7 .....	1,533.00	
Chemical Engine Company, No. 1 .....	314.00	
Combination Company, No. 2 .....	1,078.00	
Aerial Truck Company, No. 1 .....	1,828.00	
Hose Company No. 1 .....	1,693.00	
Hose Company No. 2 .....	1,528.00	
Hose Company No. 3 .....	928.00	
	<hr/>	\$20,850.00

## OTHER LABOR.

F. A. Burnham .....	\$84.00	
Thomas Collins .....	245.88	
John Cote .....	241.50	
Edwin N. Cousins .....	37.50	
Alfred F. Eaton .....	38.50	
Arthur F. Garland .....	9.63	
Ralph E. Gove .....	184.63	
Henry C. Morrill .....	276.60	
George N. Rogers .....	12.25	
Celon D. Stevens .....	168.00	
	<hr/>	\$1,298.49

## LAUNDRY.

J. E. Cheney .....	\$1.65	
Eureka Laundry .....	15.70	
Gould & Laraba .....	13.40	
Henry Lang .....	11.59	
Manchester Steam Laundry .....	1.25	
W. H. Mathews .....	4.00	
N. H. Towel Supply Co. ....	39.00	
Oneeda Laundry .....	101.01	
H. W. Partridge .....	1.60	



# FIRE DEPARTMENT.

99

Mrs. H. Pepin .....	\$7.84
Margaret Power .....	53.00
Albert W. Smith .....	14.40

\$264.44

## FURNITURE, ETC.

C. A. Hoitt Co., chairs, shades, matting, bedding .....	\$176.67
Manchester Dry Goods Co., mull and binding, .....	1.78

\$178.45

## PRINTING AND STATIONERY.

John B. Clarke Co., printing cards, envelopes, etc. ....	\$85.75
John B. Clarke Co., department reports.....	40.30
Kellogg & Co., 1,000 books, running cards....	92.60
W. P. Goodman, stationery.....	4.30
The Nutfield Press, printing reports, cards..	7.25
Temple & Farrington Co., stationery.....	21.50

\$251.70

## FUEL, LIGHTS, TELEPHONE, WATER.

L. B. Bodwell & Co., wood and coal.....	\$937.40
Fletcher Brown, wood .....	22.00
C. A. & A. W. Flint, wood .....	33.75
Manchester Traction, Light & Power Co., electric lights .....	208.94
Maxwell Ice Co., wood .....	12.00
Moore & Preston Coal Co., coal .....	1,743.00
New England Telephone & Telegraph Co., use of telephone .....	60.73
People's Gas-Light Co., gas .....	602.47
Water commissioners, use of water .....	377.99

\$3,998.28

## SUPPLIES.

Amoskeag Manufacturing Co., weights, castings, etc.....	\$27.94
Ernest E. Austin, electric supplies.....	5.20
C. G. Braxmar Co., supplies .....	.60
Cornelius Callahan Co., soda, hose, hose-washers, ladder, pulley wheels, etc.....	363.46
Daniels-Cornell Co., soap.....	19.00
S. P. Dodge Co., 1 three-horse hitch.....	55.00
Dyer & Chipman, bottles .....	1.40
Electric Goods Manufacturing Co., electric supplies .....	8.25

J. Wesley Edmonds & Son, metal polish.....	\$15.30
Farrell Brothers, 1 current tap .....	.35
Fellows & Son, sawdust .....	1.50
Frank E. Fitts Manufacturing & Supply Co., waste .....	28.08
Globe Manufacturing Co., coats .....	75.00
Globe Fire Apparatus Co., extinguishers ....	58.00
A. W. Harris Oil Co., oil.....	8.05
J. M. Hardy, hose .....	75.00
S. F. Hayward & Co., stopper for chemical..	4.25
C. S. Knowles, lamps .....	42.50
Larkin Manufacturing Co., nozzles, valve....	65.00
T. A. MacDonald, brooms.....	14.25
New Departure Manufacturing Co., foot pin..	.98
F. F. Osgood, rubber tubing.....	2.40
C. N. Perkins Co., ladders, bottles, screws, nuts .....	42.35
Pike & Heald Co., pipe, burner, brush.....	1.63
Robart-Carleton Co., life-nets and covers....	337.00
Stark Mills, duck .....	9.69
C. D. Steele & Co., oil .....	5.00
Smith Box & Lumber Co., sawdust.....	6.45
Talbot Dyewood & Chemical Co., soda, oil vitriol .....	30.78
John B. Varick Co., hardware, etc.....	560.24
Arthur A. Warren, kerosene oil.....	72.80

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 \$1,937.45

## REPAIRS, ETC.

American Locomotive Co., brass.....	\$3.25
Boston Belting Co., valves .....	8.75
Cornelius Callahan Co., repairs.....	31.67
H. C. Dimond & Co., repairing and cleaning stamp .....	1.50
Farrell Brothers, key sockets.....	1.38
Head & Dowst Co., lumber and labor.....	1.88
J. Hodge, lumber and labor.....	13.58
H. J. Lawson, repairs .....	2.80
Albert J. M. Lein, repairing water tank....	3.75
C. N. Perkins Co., repairing extinguishers..	1.50
Pike & Heald Co., repairing lanterns, etc....	1.34
Powell & Clarkson, lumber and labor.....	3.25
S. Sanberg & Co., machine work.....	7.95
Stevens & Bradley, pipe and labor.....	5.59
G. W. Spaulding, repairing hose nozzle .....	1.50
C. A. Trefethen, repairing clocks.....	2.75

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 \$92.44

# FIRE DEPARTMENT.

101

## HORSES, VETERINARY SERVICES AND MEDICINES.

F. T. Arbuckle, V. S., services and medicine,	\$124.15
Aid-Ant Remedy Co., "Aid-Ant".....	7.60
C. M. Bailey, V. S., medicine .....	1.00
Cavanaugh Brothers, horses .....	2,216.18
Cavanaugh Brothers, keeping horses .....	204.75
F. J. Clark, V. S., fixing teeth, disinfectant..	49.50
Mrs. A. L. Dodge, disinfectant.....	15.00
Dyer & Chipman, medicine.....	8.80
H. B. Dunton, V. S., services and medicine..	52.00
J. J. Holland, medicine.....	18.70
J. E. Jannelle, V. S., services.....	21.00
E. J. Letendre, V. S., services and medicine,	8.50
Alfred C. Pfefferkorn, V. S., attendance and medicine .....	22.10
A. D. Smith, liniment and medicine .....	12.10
Walsh & Cummings, medicine.....	.30
Winchester Tar Disinfectant Co., disinfec- tant .....	10.40
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	\$2,772.08

## CARRIAGE AND ENGINE REPAIRS.

J. P. Brown & Co.....	\$14.40
International Power Co.....	1,177.92
H. J. Lawson .....	2.45
J. B. McCrillis & Son.....	385.16
Sanborn Carriage Co.....	4.15
	<hr/>
	\$1,584.08

## BLACKSMITHING.

Connor & Grossman .....	\$67.95
H. J. Dexter .....	135.50
S. P. Dodge Co.....	4.30
J. F. McDonald & Co.....	286.75
MacDonald Brothers .....	478.65
E. J. McShane .....	127.25
John Stack .....	*66.00
J. O. & L. P. Tremblay .....	323.75
G. F. Wenzel.....	191.10
	<hr/>
	\$1,681.25

## HAY, GRAIN, ETC.

Adams Brothers .....	\$1,501.71
Arthur S. Brown .....	2,011.26
Cote Brothers .....	83.41

C. S. Fifield .....	\$10.17	
J. J. Lovering .....	19.20	
F. H. Masse & Co.....	1,755.51	
Merrill & Laraba .....	169.24	
F. C. Livingston, assignee.....	391.82	
C. R. Merrill, agent.....	1,259.94	
Partridge & Co.....	1,799.18	
		<u>\$9,031.44</u>

## HARNESS REPAIRS AND SUPPLIES.

Charles E. Berry .....	\$131.15	
Oliver Comire .....	22.70	
Leo Dalpe .....	8.55	
P. I. Langton .....	.65	
N. F. Paquette .....	75.55	
Ranno Saddlery Co.....	37.65	
G. W. Spaulding.....	2.00	
J. Vogel & Co.....	42.15	
N. J. Whalen .....	37.10	
Ivory S. York .....	19.70	
		<u>\$377.20</u>

## SUNDRIES.

L. B. Bodwell & Co., ice.....	\$8.58	
C. B. Clarkson, weighing coal.....	25.00	
W. J. Freeman, use of hack for committee...	5.00	
E. H. Holmes, freight and cartage.....	27.77	
T. W. Lane, expenses to Columbus, Ohio, and return, attendance of International Associ- ation Fire Engineers .....	82.73	
T. W. Lane, paid for express and freight....	23.95	
Manchester Automobile Garage, use of auto- mobile .....	5.00	
Parnell Brothers, lunch for firemen, brush fire .....	1.22	
Fred M. Ray, burying horses.....	4.50	
Union Grocery Co., lunch for firemen, brush fire .....	1.43	
		<u>\$185.18</u>
Total expenditures .....		<u><u>\$88,618.45</u></u>

## Fire Alarm Telegraph.

Appropriation .....	<u><u>\$2,600.00</u></u>
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## EXPENDITURES.

## LABOR.

January .....	\$67.50	
February .....	62.50	
March .....	65.00	
April .....	65.00	
May .....	65.00	
June .....	65.00	
July .....	67.50	
August .....	65.00	
September .....	65.00	
October .....	67.50	
November .....	62.50	
December .....	67.50	
		<hr/>
		\$785.00
Albert Cook .....		\$301.25

## SUPPLIES AND REPAIRS.

American Electrical Works, wire.....	\$97.83	
American Steel & Wire Co., wire.....	190.50	
Fletcher Brown, poles .....	40.00	
Electric Goods Manufacturing Co., supplies..	112.62	
Farrell Brothers, electric supplies .....	12.88	
Gamewell Fire-Alarm Telegraph Co., 1 fire- alarm box .....	125.00	
Gamewell Fire-Alarm Telegraph Co., sup- plies, labor .....	97.43	
Head & Dowst Co., lumber .....	.69	
J. Hodge, lumber .....	201.19	
J. B. McCrillis & Son, iron hangers.....	13.61	
Powell & Clarkson, filing saws.....	.90	
Pike & Heald Co., gasoline, etc.....	4.40	
Stevens & Bradley, pipe and repairs .....	15.30	
John B. Varick Co., paint and hardware.....	79.71	
Western Electric Co., supplies.....	11.25	
		<hr/>
		\$1,003.31

## SUNDRIES.

E. H. Holmes, freight and cartage.....	\$11.15	
		<hr/>
Total expenditures .. .. .	\$2,100.71	
Transferred to unappropriated money.....	499.29	
		<hr/>
		\$2,600.00
		<hr/> <hr/>

**Hydrant Service.**

Appropriation .....	\$20,925.00
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**EXPENDITURES.**

Water commissioners, hydrant rentals .....	\$20,925.00
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**Combination Hose Wagon, General Stark Engine House.**

Appropriation .....	\$1,200.00
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**EXPENDITURES.**

Cavanaugh Brothers, 1 horse.....	\$275.00
Sanborn Carriage Co., hose wagon.....	760.00
Tea Tray Co., Diggs extinguisher.....	77.50
Joseph Vogel & Co., 1 double harness.....	65.00
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	\$1,177.50

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Total expenditures .....	\$1,177.50
Transferred to unappropriated money.....	22.50
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	\$1,200.00

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**Combination Hose Wagon, Fulton Engine House.**

Appropriation .....	\$1,200.00
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**EXPENDITURES.**

Cavanaugh Brothers, 1 horse.....	\$160.16
Sanborn Carriage Co., hose wagon.....	760.00
Tea Tray Co., Diggs extinguisher.....	77.50
Joseph Vogel & Co., 1 double harness.....	65.00
	<hr/>
	\$1,062.66

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Total expenditures .....	\$1,062.66
Transferred to unappropriated money.....	137.34
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	\$1,200.00

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## Police Department.—Commission.

Appropriation .....	\$55,000.00
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## EXPENDITURES.

## SERVICES.

Michael J. Healy, chief of police.....	\$2,500.00	
John F. Cassidy, deputy chief.....	1,500.00	
Edward B. Woodbury, chairman of commis-		
sion, salary .....	150.00	
Noah S. Clark, commissioner, salary.....	100.00	
Peter A. Farrell, commissioner, salary.....	100.00	
A. B. Brown, police matron.....	425.00	
Regular and special patrol .....	45,365.20	
	<hr/>	\$50,140.20

## FEEDING PRISONERS.

A. J. Gingras.....	\$17.65	
S. J. Laflamme .....	112.30	
National Biscuit Co. ....	89.66	
Eugene Sigrist .....	7.06	
Martin J. Shew .....	92.27	
	<hr/>	\$318.94

## PRINTING AND STATIONERY.

John B. Clarke Co., printing.....	\$100.90	
N. S. Clark, paid for typewriting and station-		
ery .....	3.85	
W. P. Goodman, books and stationery.....	76.45	
L. T. Mead, book and stationery.....	6.50	
	<hr/>	\$187.70

## PATROL SYSTEM EXPENSES.

J. J. Abbott, gasoline .....	\$0.50
Ame & Co., Standard Food.....	6.50
American Steel & Wire Co., wire .....	3.00
American Locomotive Co., castings.....	12.00
American Electrical Works, wire.....	6.03
Daniel J. Ahern, carrots.....	29.83
Automatic Time Stamp Co., ribbons.....	4.00
Alfred Beauchene, labor.....	2.00
Blake Signal & Manufacturing Co., insulated	
staples .....	.79
Boston & Maine Railroad, freight.....	22.71
Boyd Brothers, clipping horse.....	.50

Arthur S. Brown, grain and hay.....	\$338.31
J. P. Brown & Co., repairing ambulance and patrol wagon .....	146.35
George L. Brownell estate, 1 pin.....	.75
Bartholomew Bresnehan, changing wires....	2.00
E. M. Bryant & Co., supplies.....	27.67
J. H. Bunnell & Co., electric supplies.....	21.02
George H. Buckminster & Co., batteries.....	66.20
Cavanaugh Brothers, 1 horse.....	250.00
John W. Cassidy, labor on signal system....	77.00
Couch & Seeley Co., telephone supplies.....	181.35
S. P. Dodge Co., 3 grapple hooks.....	1.40
H. B. Dunton, V. S., attendance.....	33.00
W. M. Eames Drug Co., medicine.....	7.45
W. J. Freeman, horse hire.....	6.00
Granite State Rubber Co., tubing and wash- ers .....	6.50
Gordon Battery Co., 170 cells.....	344.25
Peter Harris, repairs.....	.75
Head & Dowst Co., lumber and labor.....	11.87
Charles R. Healy, labor on signal system....	162.00
Kimball Carriage Co., blankets, brush, etc..	17.25
H. J. Lawson, copper connections.....	3.39
F. C. Livingston, assignee, hay and grain..	83.27
Merrill & Laraba, hay and grain.....	46.80
C. R. Merrill, agent, hay and grain.....	129.35
J. B. McCrillis & Son, carriage repairs.....	4.75
John O'Hearn, labor on wires.....	23.75
Pettingell-Andrews Co., electrical merchan- dise .....	42.23
Charles E. Perry & Co., register paper.....	22.40
Pike & Heald Co., tin.....	.13
Protective Electrical Supply Co., supplies....	39.08
Ranno Saddlery Co., 48 revolver holsters....	8.00
Sanborn Carriage Co., rubber tires, repairs,	29.50
Sandwich Pole-Changer Co., coils.....	1.50
Stromberg-Carlson Telephone Manufacturing Co., supplies .....	61.52
J. O. & L. P. Tremblay, horseshoeing.....	89.75
United Electric & Apparatus Co., labor, ma- terial .....	9.26
Walsh & Cummings, cotton.....	1.05
Western Electric Co., batteries and tape....	21.80
N. J. Whalen, harness repairs and supplies..	51.65

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 \$2,458.16

## POLICE DEPARTMENT.

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## HARDWARE AND REPAIRS.

Amoskeag Manufacturing Co., iron castings,	\$3.20	
Peter Harris, repairs.....	1.50	
Head & Dowst Co., lumber and labor.....	5.73	
F. D. Leighton, pipe, etc.....	17.24	
Manchester Hardware Co., hardware.....	107.71	
John B. Varick Co., hardware.....	.39	
		<hr/>
		\$135.77

## TELEPHONE AND TELEGRAPH.

New England Telephone & Telegraph Co., use of telephones.....	\$182.98	
Western Union Telegraph Co., telegrams and clock rental .....	27.54	
		<hr/>
		\$210.52

## SUNDRIES.

N. S. Clark, typewriting and postage.....	\$3.55	
G. H. Emery, photographing criminals.....	30.00	
F. W. Leeman, crash and towels.....	5.78	
J. J. Holland, medicine, emergency case....	16.20	
C. W. Milliken, M. D., medical services.....	5.00	
Mary O'Brien, taking care of lost children to November 20, 1908.....	25.00	
Abraham Rich, interpreter at Polish meet- ings to December 20, 1908.....	10.00	
Water commissioners, use of water.....	39.32	
		<hr/>
		\$134.85

Total expenditures .....	\$53,586.14	
Transferred to unappropriated money.....	1,413.86	
		<hr/>
		\$55,000.00
		<hr/> <hr/>

## Police Department.—Station.

Appropriation .....	\$3,000.00	
Transferred from unappropriated money...	184.74	
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		\$3,184.74
		<hr/> <hr/>

## EXPENDITURES.

## SERVICES.

Frank P. Wiggin, janitor.....	\$821.25
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## FUEL, LIGHTS, WATER.

Manchester Traction, Light & Power Co., electric lights .....	\$600.00	
Maxwell Ice Co., wood .....	19.50	
Moore & Preston Coal Co., coal.....	1,006.75	
People's Gas-Light Co., gas.....	74.58	
Water commissioners, use of water.....	138.71	
	<hr/>	\$1,839.54

## LAUNDRY, ETC.

T. J. Briggs, dippers .....	\$9.00	
Columbia Refining Co., soap.....	28.14	
Frank Holt, soap.....	2.00	
James W. Hill Co., sheets, oil cloth.....	5.84	
Swift & Co., washing powder.....	10.92	
Mrs. J. F. Wiggin, laundry work.....	52.38	
	<hr/>	\$108.28

## REPAIRS, ETC.

J. J. Abbott, glass and setting.....	\$9.25	
Elzear Bilodeau, masonwork.....	33.50	
T. J. Briggs, grate and repairing stove, plumbing repairs, etc.....	25.65	
E. M. Bryant & Co., electric supplies and re- pairs .....	26.85	
John B. Carr, repairing padded cell.....	2.50	
M. J. Coleman, repairs.....	1.20	
Connor Brothers, plumbing repairs.....	19.85	
C. H. Dennis, repairing door.....	2.00	
A. M. Finney, seating chairs.....	3.75	
N. E. Finney & Co., reseating chair.....	1.25	
Head & Dowst Co., lumber.....	49.93	
C. A. Hoitt Co., stools.....	6.00	
Manchester Traction, Light & Power Co., lamps .....	5.76	
Manchester Hardware Co., hardware.....	1.23	
People's Gas-Light Co., 1 plate and tubing...	1.15	
Pike & Heald Co., pipe and labor.....	20.40	
Harry A. Piper, material and labor on chair,	4.88	
C. A. Sargent, paint and labor.....	14.05	
Stevens & Bradley, plumbing repairs.....	3.36	
C. L. Wolf, grate for stove and putting in..	2.50	
	<hr/>	\$235.06

# REPAIRS OF BUILDINGS.

109

## SUNDRIES.

L. B. Bodwell & Co., ice.....	\$15.20	
C. B. Clarkson, weighing coal.....	8.00	
J. J. Holland, medicine, etc.....	113.65	
Eugene Sigrist, oil, crackers.....	3.76	
The Worrell Manufacturing Co., "Insecticide,"	40.00	
		<u>\$180.61</u>
Total expenditures .....		<u><u>\$3,184.74</u></u>

## Police Court.

Appropriation .....	\$2,900.00	
Transferred from unappropriated money....	11.08	
		<u>\$2,911.08</u>

## EXPENDITURES.

### SERVICES.

Isaac L. Heath, police justice.....	\$1,500.00	
H. E. Loveren, associate justice.....	300.00	
John C. Bickford, clerk.....	600.00	
		<u>\$2,400.00</u>

### SUNDRIES.

M. J. Healy, witness fees.....	\$373.68	
Thomas D. Luce, certifying appeal.....	.50	
New England Telephone & Telegraph Co., use of telephones .....	63.00	
E. A. Stratton Co., printing dockets and writs .....	65.90	
Temple & Farrington Co., 1 docket.....	.50	
J. Arthur Williams, printing warrants.....	7.50	
		<u>\$511.08</u>
Total expenditures .....		<u><u>\$2,911.08</u></u>

## Repairs of Buildings.

Appropriation .....	\$7,500.00
Appropriation, "Alteration of General Stark Engine House" .....	1,000.00

Appropriation, "Alteration of Wilson Hill Engine House" .....	\$500.00	
Transferred from appropriation, "Equipping and Maintenance, Ward 10 Engine House," .....	50.19	
		<u>\$9,050.19</u>

## EXPENDITURES.

## CITY LIBRARY.

Connor Brothers, steam fitting.....	\$33.25	
Farrell Brothers, wire, screws, labor.....	13.37	
Fischer & Bisson, roofing material and labor .....	89.50	
I. Gagne & Co., lumber, etc., and labor.....	301.90	
Head & Dowst Co., lumber .....	4.20	
J. F. Marchand, plumbing repairs.....	5.45	
Pike & Heald Co., repairing valve.....	.25	
Elmer E. Reed, masonwork.....	117.18	
		<u>\$565.10</u>

## POLICE STATION.

Connor Brothers, steam-fitting and plumbing repairs.....	\$211.43	
Farrell Brothers, rosette and labor.....	.70	
Head & Dowst Co., iron beam .....	30.39	
J. F. Marchand, plumbing repairs.....	24.84	
J. J. Moreau & Son, feed-box, pitch.....	7.46	
Pike & Heald Co., repairing pipe.....	.25	
T. Raiche, plumbing repairs.....	8.47	
Elmer E. Reed, setting lock in cell.....	2.58	
Stevens & Bradley, plumbing repairs.....	6.70	
		<u>\$292.82</u>

## ENGINE HOUSES.

Joseph Bernard, lumber, hardware, labor....	\$20.50	
George M. Bean & Co., plumbing, steam and gas fitting .....	49.00	
E. Bilodeau, repairs .....	54.50	
E. M. Bryant & Co., electric material and labor .....	374.63	
John Bryson, paint, varnish, labor.....	520.26	
Connor Brothers, plumbing.....	35.95	
Fred M. Dow & Co., painting .....	9.36	
Farrell Brothers, electric material and labor,	150.80	
Hermann Fischer, sheathing, etc., labor.....	31.05	
Fischer & Bisson, repairing roof.....	21.15	



A. L. Franks & Co., electric material and labor .....	\$73.36	
Isidor Gagne Co., labor and material.....	1,791.45	
Edmond Gagnon, masonwork.....	61.53	
Head & Dowst Co., lumber.....	3.65	
L. W. Howard, paint and labor.....	986.20	
Samuel Landry, blacksmithing.....	5.25	
Manchester Traction, Light & Power Co., lights, Somerville engine house.....	5.49	
J. F. Marchand, plumbing repairs.....	126.90	
M. C. Morey, caretaker, Somerville engine house .....	5.28	
J. J. Moreau & Son, iron, solder, labor, hardware .....	87.53	
Paradis & Dionne, stone work.....	77.31	
C. O. Polson, paint and labor.....	64.56	
Powell & Clarkson, lumber and labor.....	370.51	
T. Raiche, plumbing repairs .....	61.40	
Elmer E. Reed, masonwork .....	146.42	
Robie Concrete Co., concrete.....	133.59	
O. Rouleau, masonwork .....	49.60	
M. F. Savage, paint and labor .....	115.16	
John B. Varick Co., hardware.....	73.30	
C. L. Wolf, plumbing repairs.....	212.41	
		<hr/>
		\$5,718.10

## CITY HALL.

George B. Cressey, glass and labor .....	\$0.78	
H. Defosses & Co., paint, paper-hanging, etc.,	160.30	
M. A. Ellis, reseating chair.....	2.25	
Farrell Brothers, electric material and labor .....	92.15	
Fischer & Bisson, repairing slate, and new tin roof .....	218.15	
Francoeur Sign Co., labor and material.....	9.00	
Isidor Gagne Co., material and labor.....	373.38	
W. E. Goodwin, plumbing repairs.....	15.29	
C. A. Hoitt Co., 1 chair.....	12.00	
Manchester Traction, Light & Power Co., Tungsten lamps, shades, etc.....	21.97	
J. F. Marchand, plumbing repairs.....	179.04	
J. J. Moreau & Son, "Roll-a-way" screens...	21.15	
M. J. O'Connor, paint and labor.....	32.15	
Pike & Heald Co., plumbing repairs.....	1.94	
Elmer E. Reed, masonwork .....	7.27	
Stevens & Bradley, steam fitting .....	49.90	
John B. Varick Co., locks.....	18.00	
C. L. Wolf, plumbing repairs.....	29.01	
		<hr/>
		\$1,243.73

## COURT HOUSE.

Connor Brothers, labor on steam boiler.....	\$20.05	
Stevens & Bradley, 1 rubber ell.....	.40	
		<hr/>
		\$20.45

## WARD TWO WARD ROOM.

Elzear Bilodeau, masonwork .....	\$9.18	
Farrell Brothers, electric supplies and labor,	59.09	
I. Gagne & Co., lumber and labor.....	113.44	
Edmond Gagnon, painting ward room.....	60.00	
F. D. Leighton, making and installing rail..	35.00	
J. F. Marchand, plumbing repairs.....	4.90	
Ovide Rouleau, masonwork .....	45.32	
L. B. Wilson, steel ceiling.....	57.00	
		<hr/>
		\$383.93

## WARD EIGHT WARD ROOM.

Joseph Bernard, lumber and labor .....	\$42.00	
E. M. Bryant & Co., electric supplies and la-		
bor .....	73.01	
John Bryson, paint and labor .....	20.43	
Horace Millett, cleaning ward room.....	3.00	
C. L. Wolf, plumbing repairs .....	48.30	
		<hr/>
		\$186.74

## SUNDRIES.

American Express Co., express charge.....	\$0.40	
Charles Boisclair, hacks for committee.....	10.00	
E. M. Bryant & Co., supplies .....	4.52	
Herman Fischer, repairing bath-house.....	274.28	
W. D. Hebert & Co., care city clocks.....	250.00	
Patrick Kean, labor, Battery building.....	20.00	
Manchester Hardware Co., 1 door set, seed..	3.00	
F. L. Noyes, repairing roof, ward 4 ward		
room .....	7.34	
M. F. Savage, glass, putty, labor, ward 5		
ward room .....	7.13	
L. & W. T. Seiberlich, labor at bath-house...	2.24	
E. F. Tuson, repairing locks and making		
keys, ward 5 ward room.....	7.50	
John A. Westover, labor on furniture, ward		
6 ward room.....	39.20	
William Winslow, cleaning paint.....	6.00	

Wiggin-Young Co., broom, oil; bath-house..	\$0.37	
C. L. Chase & Son, floor dressing.....	2.90	
		<u>\$634.88</u>
Total expenditures .....		\$9,045.75
Transferred to unappropriated money.....		4.44
		<u>\$9,050.19</u>

### Equipping and Maintenance, Ward 10 Engine House.

Balance from last year unexpended.....	<u>\$500.00</u>
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## EXPENDITURES.

## SUNDRIES.

Connor Brothers, plumbing .....	\$10.47	
Farrell Brothers, electric supplies and labor .....	92.12	
Isidor Gagne Co., staples, rings, hooks, hangers .....	31.35	
I. Gagne & Co., material and carpenter work,	261.56	
Fred M. Hebert, paint and labor.....	42.95	
J. J. Moreau & Son, galvanized iron.....	11.36	
		<u>\$449.81</u>
Total expenditures .....		\$449.81
Transferred to repairs of buildings account.....		50.19
		<u>\$500.00</u>

### Addition to Hallsville Schoolhouse.

Appropriation .....	<u>\$18,000.00</u>
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## EXPENDITURES.

## SUNDRIES.

American Seating Co., desks and chairs.....	\$935.00	
H. W. Colby & C. F. McFarland, architects, services .....	900.70	
Alphonse Grenier, labor and material, per contract .....	13,575.00	

Alphonse Grenier, extra work.....	\$555.00	
Head & Dowst Co., lumber .....	3.35	
John Soley & Sons, moving building.....	1,975.00	
		<u>\$17,944.05</u>
Total expenditures .....		\$17,944.05
Transferred to unappropriated money .....		55.95
		<u><u>\$18,000.00</u></u>

### Water-Works.

Balance from last year unexpended .....	\$13,992.61	
Cash received for water rents.....	147,561.52	
		<u>\$161,554.13</u>

### EXPENDITURES.

#### LABOR.

January .....	\$2,324.29	
February .....	1,915.10	
March .....	1,911.28	
April .....	2,400.96	
May .....	2,145.07	
June .....	2,588.57	
July .....	2,066.98	
August .....	2,024.61	
September .....	2,605.36	
October .....	2,332.15	
November .....	2,366.25	
December .....	2,957.52	
		<u>\$27,638.14</u>
John P. Griffin, labor and team.....		\$298.62

#### GENERAL EXPENSES.

Charles K. Walker, superintendent, salary..	\$2,400.00	
Charles K. Walker, cash paid, electric lights..	182.19	
Charles K. Walker, express, stamps, incidentals .....	87.33	
Derryfield Club, dinners, annual inspection..	87.75	
C. O. Seaman, use of boat, team, etc.....	5.75	
William Corey, 25 meetings of board.....	125.00	
Perry H. Dow, 7 meetings of board.....	35.00	
Charles M. Floyd, 12 meetings of board.....	60.00	
Edgar J. Knowlton, 22 meetings of board....	110.00	
Charles H. Manning, 34 meetings of board...	170.00	
Robert E. McKean, 15 meetings of board....	75.00	
		<u>\$3,338.02</u>

## PRINTING, ADVERTISING, STATIONERY.

John B. Clarke Co., printing bills and slips..	\$69.00
John B. Clarke Co., 650 reports.....	44.95
John B. Clarke Co., advertising 1 line 18 times .....	4.50
E. A. Stratton Co., printing.....	18.50
Temple & Farrington Co., books and station- ery .....	112.00
Union Publishing Co., advertising 1 line 19 times .....	4.75

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 \$253.70

## FUEL, TEAMS, TELEPHONE.

L. B. Bodwell & Co., coal .....	\$358.16
Fifield & Brown, use of hack.....	5.00
Charles S. Fifield, use of teams.....	46.00
W. Y. Hadlock, use of automobile.....	15.00
W. A. Jepson, coal.....	726.72
Manchester Automobile Garage, use of auto- mobiles .....	22.50
New England Telephone & Telegraph Co., use of telephone .....	39.58
L. J. Proctor, chopping wood.....	74.12
H. A. Russell, use of hacks.....	15.00
Albert Warren, sawing wood.....	39.50

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 \$1,341.58

## LAND AND BUILDINGS.

Nellie Eaton, land, Loon island.....	\$500.00
Edward S. Stratton, land and buildings.....	2,250.00

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 \$2,750.00

## LEGAL SERVICES.

Burnham, Brown, Jones & Warren.....	\$615.93
Desmond Fitzgerald, services as consulting engineer in examination of Massabesic lake system, and report on the disadvan- tages of giving up "back pond" as a por- tion of the storage system.....	500.00
Desmond Fitzgerald, expenses.....	6.89
C. H. Manning, paid for expenses of D. Fitz- gerald .....	8.35
G. A. Wagner .....	10.00

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 \$1,141.17

## DAMAGES.

John Healy, damage to goods in cellar from break in main pipe .....	\$75.00
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## BLACKSMITHING, FREIGHT, HARDWARE.

C. H. Allyson, sharpening tools, etc.....	\$505.15
Boston & Maine Railroad, freight.....	2,855.85
Manchester Hardware Co., tools and hardware .....	34.53
John B. Varick Co., tools and hardware.....	644.09
	<hr/>
	\$4,039.62

## SUPPLIES.

J. J. Abbott, gasoline, glass, putty, etc.....	\$34.11
Adams Brothers, cement, lime, salt.....	24.52
Amoskeag Manufacturing Co., waste.....	18.00
Amoskeag Manufacturing Co., iron rods, brass glands and labor.....	75.01
American Locomotive Co., castings.....	250.25
Harold L. Bond Co., 5 pipe cutter wheels....	1.25
E. M. Bryant & Co., electric supplies.....	50.01
Builders Iron Foundry, branches.....	88.88
Chadwick-Boston Lead Co., lead pipe.....	57.68
Cornelius Callahan Co., hose, pipe, etc.....	61.35
H. C. Dimond & Co., dies, pads, etc.....	2.20
M. J. Drummond & Co., pipe .....	5,536.83
Edson Manufacturing Co., 1 strainer.....	2.25
Glauber Brass Manufacturing Co., curb cocks, nips .....	501.40
Granite State Rubber Co., packing, etc.....	3.89
Hart Packing Co., pump valves.....	77.55
Hays Manufacturing Co., curb boxes.....	219.45
Head & Dowst Co., lumber.....	509.09
J. Hodge, frame and sash, lumber, labor....	8.03
Ingersoll-Rand Co., supplies .....	69.40
Kennedy Valve Manufacturing Co., 2 gates..	20.50
Lead Lined Iron Pipe Co., pipe.....	460.02
Ludlow Valve Manufacturing Co., hub gates,	113.40
J. H. Mendell Co., lumber .....	92.58
H. Mueller Manufacturing Co., dies.....	5.35
National Meter Co., meters.....	573.30
Neptune Meter Co., meters.....	397.20
Newark Brass Works, 1 rubber gasket.....	1.64
Norwood Engineering Co., hydrant heads and posts .....	834.05



# WATER-WORKS.

117

F. F. Osgood, packing.....	\$9.60
Pike & Heald Co., pipe, etc.....	109.01
Perry Oil Co., oil.....	142.34
Pittsburg Meter Co., meters.....	206.40
Rensselaer Manufacturing Co., valves, gates,	464.30
Richards & Co., lead.....	700.56
A. P. Smith Manufacturing Co., 2 special sleeves and valves .....	148.00
Smith Box & Lumber Co., boxes .....	123.00
Snow Steam Pump Works, valve deck for en- gine .....	350.00
Snow Steam Pump Works, man to apply valve deck, and expenses .....	96.32
C. D. Steele & Co., soap, matches.....	1.48
Stevens & Bradley, valve, washers, coup- lings .....	62.89
Thomson Meter Co., meters.....	453.40
Union Water Meter Co., meters and washers,	224.53
U. S. Cast Iron Pipe & Foundry Co., pipe....	5,666.05
Valvoline Oil Co., oil.....	200.21
Walworth Manufacturing Co., nips, springs, rolls .....	109.94
I. T. Webster, fertilizer.....	8.00
Henry R. Worthington, meters.....	86.00

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\$19,251.22

# REPAIRS.

American Locomotive Co., repairing valve...	\$2.00
Amoskeag Manufacturing Co., repairs on steam pump, labor at high service station,	171.55
Joel S. Daniels, paint and paper.....	444.85
Drew Machinery Agency, labor on valve seats, etc.....	28.20
Arthur W. Dudley, surveying.....	52.45
J. P. Griffin, labor on shore of lake.....	150.10
Head & Dowst Co., material and labor.....	16.87
Hersey Manufacturing Co., repairing meters,	15.25
Manchester Traction, Light & Power Co., thawing pipes .....	40.00
J. H. Mendell Co., lumber.....	3.12
National Meter Co., repairing meters.....	190.19
Neptune Meter Co., repairing meters.....	12.50
F. L. Noyes, repairs .....	2.05
Robie Consolidated Concrete Co., concrete...	6.81
Street and Park commissioners, ½ cost get- ting out ledge for water pipe, Beech street,	1,244.33

Street and Park commissioners, cleaning and painting water pipe .....	\$146.61	
Street and Park commissioners, removing moth nests, Harvey's Mills.....	27.75	
Stevens & Bradley, material and labor.....	20.44	
Thomson Meter Co., repairing meters.....	89.52	
Union Water Meter Co., repairing meters...	194.91	
West Side Lumber Co., sawing logs.....	2.56	
H. R. Worthington, repairing meters.....	3.70	
		<hr/>
		\$2,865.76

## SUNDRIES.

Town of Auburn, taxes.....	\$748.92	
J. G. Ellinwood, photograph of bridge.....	6.00	
Sarah C. Pennock, rent of house.....	100.00	
Harrison Preston, lease of Lamprey hotel and land .....	75.00	
Roberge & Co., removing moth nests from Severance land .....	75.00	
Sinking Fund commissioners, payment of water bonds .....	5,000.00	
Sinking Fund commissioners, hydrant rentals .....	20,925.00	
James G. Taggart, advertising and services, sale of property .....	72.50	
		<hr/>
		\$27,002.42
		<hr/>
Total expenditures .....	\$89,995.25	
Transferred to interest account.....	29,737.50	
Transferred to new account .....	41,821.38	
		<hr/>
		\$161,554.13
		<hr/>

## Pine Grove Cemetery.

Appropriation .....	\$12,000.00	
Appropriation, improvement of pond.....	2,500.00	
		<hr/>
		\$14,500.00
		<hr/>

## EXPENDITURES.

## LABOR.

January .....	\$581.71
February .....	480.95
March .....	460.06

## PINE GROVE CEMETERY.

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April .....	\$1,030.63
May .....	1,117.49
June .....	1,265.44
July .....	883.23
August .....	895.30
September .....	990.28
October .....	649.17
November .....	798.36
December .....	308.08

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 \$9,460.70

## LOAM, ETC.

M. N. Badger, loam.....	\$5.25
Eugene Cullity, loam .....	35.25
J. L. Poor, loam .....	81.00
Reade Manufacturing Co., "Herbicide".....	24.00
James Thompson, loam .....	151.00

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 \$296.50

## FUEL, INSURANCE, TELEPHONE, WATER.

John Dowst, insurance premium.....	\$75.00
Everett & Bunton, insurance premium .....	25.00
New England Telephone & Telegraph Co., use of telephone .....	27.23
Union Coal Co., coal .....	255.93
Water commissioners, use of water.....	544.50

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 \$927.66

## PRINTING AND STATIONERY.

John B. Clarke Co., printing blanks.....	\$10.50
John B. Clarke Co., advertising .....	2.70
E. H. Clough, stamped envelopes .....	21.24
W. P. Goodman, stationery.....	1.02
Temple & Farrington Co., books and sta- tionery .....	11.50
Union Publishing Co., advertising .....	2.16

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 \$49.12

## REPAIRS AND IMPROVEMENTS.

Adams Brothers, lime.....	\$1.15
Carl W. Anderson & Co., repairing clock....	2.50
Boston & Maine Railroad, freight.....	1.32
Bunton & Bernard, hardwood floor and la- bor .....	98.60

A. Eastman & Co., building cesspool, and pointing chapel .....	\$121.70	
J. Hodge, lumber and grade stakes .....	11.99	
C. A. Hoitt Co., wall paper, etc.....	25.19	
Manchester Traction, Light & Power Co., lights in chapel .....	6.39	
Manchester Supply Co., pipe.....	6.58	
Palmer & Garmon, bounds and figures .....	143.00	
Henry W. Parker, cement .....	8.80	
Pike & Heald Co., plumbing repairs.....	32.91	
Elmer E. Reed, whitening ceilings .....	1.50	
R. P. Stevens Co., cement.....	16.50	
John B. Varick Co., hardware and tools ....	134.40	
West Side Lumber Co., lumber .....	31.70	
Yawman & Erbe Manufacturing Co., 1 file...	40.00	
		<hr/>
		\$684.23

## TEAM EXPENSES.

Adams Brothers, grain .....	\$341.71	
Leo Dalpe, repairing harness .....	4.15	
Frank Goodrich, hay .....	12.00	
Merrill & Laraba, grain.....	18.70	
C. R. Merrill, grain.....	99.45	
N. F. Paquette, harness repairs.....	7.00	
J. L. Poor, hay .....	106.37	
J. O. & L. P. Tremblay, horseshoeing.....	34.00	
		<hr/>
		\$623.38

## POND.

## LABOR.

June .....	\$149.05	
July .....	136.85	
August .....	215.47	
September .....	561.64	
October .....	458.59	
November .....	23.38	
		<hr/>
		\$1,544.98
C. A. Bailey, crushed stone .....	\$165.00	
S. P. Dodge Co., labor, water pipe.....	4.70	
J. G. Johnson, shrubs .....	25.00	
Manchester Supply Co., pipe.....	121.20	
Pike & Heald Co., pipe, etc.....	66.12	
R. P. Stevens Co., cement.....	17.60	
James Thompson, loam.....	420.00	
John B. Varick Co., tools and hardware....	4.14	
West Side Lumber Co., lumber.....	38.56	
Wood, Stubbs & Co., grass.....	25.00	
		<hr/>
		\$887.32

# VALLEY CEMETERY.

121

## SUNDRIES.

Edwin F. Jones, making annual report.....	\$25.00
Total expenditures .....	\$14,498.89
Transferred to unappropriated money .....	1.11
	<u>\$14,500.00</u>

## Valley Cemetery.

Appropriation .....	\$5,000.00
Appropriation, bank wall.....	1,500.00
	<u>\$6,500.00</u>

## EXPENDITURES.

### LABOR.

January .....	\$251.05
February .....	201.50
March .....	211.40
April .....	441.08
May .....	467.42
June .....	593.95
July .....	389.06
August .....	359.57
September .....	392.42
October .....	227.42
November .....	312.25
December .....	310.30
	<u>\$4,157.42</u>

## STATIONERY, TELEPHONE, WATER.

New England Telephone & Telegraph Co., use of telephone .....	\$27.98
Temple & Farrington Co., blank book.....	3.00
Water commissioners, use of water.....	78.50
	<u>\$109.48</u>

## PLANTS, LOAM, ETC.

Bridget Clune, dressing .....	\$30.00
W. E. Dunbar & Sons, loam.....	37.50
J. D. French, loam.....	93.00
A. P. Horne & Co., plants.....	90.50
Pine Grove cemetery, plants.....	50.00

Reade Manufacturing Co., "Herbicide" .....	\$10.00	
C. E. Rose, turf.....	22.12	
F. G. Stark, loam .....	2.25	
William Strong, loam.....	2.50	
		<hr/>
		\$337.87

## REPAIRS, SUPPLIES AND IMPROVEMENTS.

J. Hodge, grade stakes .....	\$2.65	
Head & Dowst Co., shingles .....	3.00	
H. J. Lawson, labor on bronze ornament for arch .....	2.50	
Manchester Hardware Co., hardware.....	2.50	
Paradis & Dionne, curbing .....	245.50	
H. W. Parker, cement .....	8.80	
Pike & Heald Co., pipe and labor.....	46.53	
R. P. Stevens Co., cement.....	13.20	
Street & Park commissioners, furnishing ma- terial and labor building concrete wall....	904.00	
Street & Park commissioners, lumber, carpen- ter work, painting iron fence .....	269.05	
John B. Varick Co., tools and hardware.....	90.19	
C. L. Wolf, plumbing repairs .....	3.25	
		<hr/>
		\$1,591.17

## TEAM EXPENSES.

F. J. Clark, V. S., services.....	\$5.00	
H. J. Dexter, horseshoeing.....	15.00	
S. P. Dodge Co., painting and lettering wagon, etc. ....	23.05	
F. H. Masse & Co., grain.....	85.60	
Joseph Vogel & Co., repairing harness .....	14.85	
		<hr/>
		\$143.50

## SUNDRIES.

Boston & Maine Railroad, freight.....	\$0.40	
J. F. Wyman, coal .....	90.00	
		<hr/>
		\$90.40
		<hr/>
Total expenditures .....		\$6,429.84
Transferred to unappropriated money.....		70.16
		<hr/>
		\$6,500.00
		<hr/> <hr/>



**Amoskeag Cemetery.**

Appropriation .....	\$500.00
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**EXPENDITURES.****LABOR.**

Charles I. Hardy .....	\$42.75	
G. C. Harwood .....	207.38	
		\$250.13

**SUNDRIES.**

J. Francis, plants.....	\$5.00	
Head & Dowst Co., lumber .....	4.46	
Manchester Hardware Co., paint, hardware, tools .....	15.78	
John B. Varick Co., sharpening lawn mower,	1.00	
John B. Varick Co., iron fence.....	210.00	
Water commissioners, use of water.....	12.00	
		\$248.24

Total expenditures .....	\$498.37
Transferred to unappropriated money.....	1.58
Transferred to new account .....	.05
	\$500.00

**Merrill Yard.**

Appropriation .....	\$100.00
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**EXPENDITURES.****LABOR.**

April .....	\$11.50	
May .....	6.50	
June .....	6.50	
July .....	9.50	
September .....	23.00	
October .....	18.45	
November .....	12.90	
December .....	5.00	
		\$93.35
John B. Varick Co., 1 lawn mower.....		\$6.00

Total expenditures .....	\$99.35
Transferred to unappropriated money.....	.65
	\$100.00

## Repairs of Schoolhouses.

Appropriation .....	\$8,000.00	
Transferred from unappropriated money....	503.14	
		<u>\$8,503.14</u>

## EXPENDITURES.

## MASONWORK.

Elzear Bilodeau .....	\$267.20	
Elmer E. Reed .....	11.50	
		<u>\$278.70</u>

## PAINTING AND GLAZING.

J. J. Abbott .....	\$231.49	
John Bryson .....	144.85	
G. B. Cressey .....	293.27	
W. F. Henderson .....	1.35	
L. W. Howard .....	1,119.46	
W. J. Powers .....	2.00	
Tibbetts & Lucy .....	102.41	
		<u>\$1,894.83</u>

## PLUMBING, MATERIAL AND REPAIRS.

C. L. Berger & Sons, inserting wires and adjusting transit .....	\$4.35	
E. M. Bryant & Co., material and labor.....	1.78	
G. W. Darrah, roofing material and labor ...	22.04	
Arthur L. Franks & Co., electric supplies and labor .....	728.53	
Head & Dowst Co., lumber and labor.....	1,495.49	
J. Hodge, lumber and labor .....	73.19	
C. A. Hoitt Co., shades, chairs, repairs.....	236.35	
C. Johnson, cutting granite post .....	4.00	
H. J. Lawson, repairing roofs .....	55.38	
Frank D. Leighton, plumbing .....	2.70	
Manchester Excavating Co., cleaning vaults,	57.00	
Manchester Pressed Stone Co., concreting coal bins .....	20.00	
J. F. Marchand, plumbing repairs.....	75.24	
C. F. McDonald, plumbing repairs.....	344.08	
John T. McLaughlin, plumbing repairs.....	39.85	
J. J. Moreau & Son, roofing material and labor .....	26.38	
Pike & Heald Co., material and labor.....	190.72	
Harry A. Piper, lumber and labor.....	946.27	

T. Raiche, repairing steam pipe.....	\$3.75	
Robie Consolidated Concrete Co., concrete...	34.02	
Stevens & Bradley, steam fitting and plumbing .....	1,570.10	
C. A. Trefethen, repairing clocks.....	5.50	
John B. Varick Co., lawn seed, hardware....	13.71	
West Side Lumber Co., lumber.....	193.06	
John S. Wheeler, repairs.....	164.75	
		<hr/>
		\$6,308.24
SUNDRIES.		
F. L. Downs, paid for carfare, freight.....	\$1.37	
E. G. Libbey, team hire.....	20.00	
		<hr/>
		\$21.37
Total expenditures .....		<hr/>
		\$8,503.14

### Printing and Advertising.

Appropriation .....	\$350.00	
Transferred from unappropriated money...	51.63	
		<hr/>
		\$401.63
EXPENDITURES.		
John B. Clarke Co., printing.....	\$369.08	
John B. Clarke Co., advertising examination,	11.25	
Union Publishing Co., advertising examinations .....	21.30	
		<hr/>
		\$401.63
Total expenditures .....		<hr/>
		\$401.63

### Books and Stationery.

Appropriation .....	\$50.00	
EXPENDITURES.		
H. L. Davis, stamped envelopes .....	\$10.62	
J. Arthur Williams, printing .....	4.50	
		<hr/>
		\$15.12
Total expenditures .....		<hr/>
		\$15.12
Transferred to unappropriated money .....		34.88
		<hr/>
		\$50.00

## Furniture and Supplies.

Appropriation .....	\$1,500.00
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## EXPENDITURES.

## BOOKS, STATIONERY, SUPPLIES.

American Seating Co., ink wells.....	\$66.85	
Atkinson, Mentzer & Grover, paper.....	3.75	
C. W. Bickford, paid for stamped envelopes,	21.44	
Crown Ribbon & Carbon Manufacturing Co.,		
ribbons .....	10.00	
E. R. & W. P. Coburn, supplies.....	3.15	
S. A. Felton & Son Co., brushes.....	30.00	
L. M. Folsom, ribbon, gauze, stilettos.....	20.37	
W. P. Goodman, stationery .....	7.67	
J. L. Hammett Co., blackboards.....	32.35	
James W. Hill Co., flags, sewing supplies....	128.76	
R. K. Horne, drinking cups .....	1.80	
C. A. Hoitt Co., burlap, tumblers.....	4.45	
Kenney Brothers & Wolkins, inkwells.....	8.20	
J. E. Post, floor brushes .....	8.88	
Temple & Farrington Co., books, carbon		
paper .....	8.00	
John B. Varick Co., hardware and supplies..	95.59	
		\$451.26

## FURNITURE, ETC.

Milton Bradley Co., tables and chairs.....	\$14.05	
E. M. Bryant & Co., lamps and mantles.....	4.14	
C. A. Hoitt Co., table, desks, chairs, shades..	134.11	
Kenney Brothers & Wolkins, desks.....	198.00	
Remington Typewriter Co., 1 No. 7 type-		
writer .....	40.00	
		\$390.30

## SUNDRIES.

W. B. Corey Transfer & Trucking Co., mov-		
ing pianos .....	\$4.00	
Archie S. Coldwell, use of chairs.....	2.50	
Harry E. Doyle, repairing typewriters.....	2.35	
Head & Dowst Co., material and labor.....	57.64	
C. A. Hoitt Co., use of chairs.....	52.62	
J. G. Jones, cartage.....	3.72	
A. A. Jenkins, tuning pianos.....	7.50	
G. H. Libby, postage.....	5.44	

# FUEL.

127

Manchester Typewriter Exchange, cleaning typewriters .....	\$8.50	
Monarch Typewriter Co., rent of machine...	30.00	
Novelty Company, rent of typewriter, and adjusting machines .....	47.50	
Piper & McIntire, rent of piano.....	20.00	
Harry A. Piper, putting in seats.....	12.75	
Smith Brothers Piano Co., rent of pianos...	120.00	
G. W. O. Tebbetts, oil of cedar .....	.65	
Williams Manufacturing Co., rent of typewriters .....	50.00	
		<hr/>
		\$425.17
Total expenditures .....		<hr/>
Transferred to unappropriated money.....		233.27
		<hr/>
		\$1,500.00
		<hr/>
		<hr/>

# Fuel.

Appropriation .....	\$11,500.00
	<hr/>
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## EXPENDITURES.

### COAL.

L. B. Bodwell & Co.....	\$1,314.86	
Moore & Preston Coal Co.....	9,014.39	
	<hr/>	
		\$10,329.25

### WOOD.

Maxwell Ice Co.....	\$954.00
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### SUNDRIES.

C. B. Clarkson, weighing coal.....	\$102.00	
Head & Dowst Co., building coal bins, etc...	85.72	
Temple & Farrington Co., 20 books.....	6.25	
	<hr/>	
		\$193.97
Total expenditures .....		<hr/>
Transferred to unappropriated money.....		22.78
		<hr/>
		\$11,500.00
		<hr/>
		<hr/>

## Contingent Expenses.

Appropriation .....	\$3,000.00	
Transferred from unappropriated money...	1,294.74	
		<u>\$4,294.74</u>

## EXPENDITURES.

## ELECTRIC LIGHTS, GAS, WATER.

Manchester Traction, Light & Power Co., electric lights .....	\$540.67	
Manchester Traction, Light & Power Co., motor service, one year .....	65.00	
People's Gas-Light Co., gas.....	312.62	
Water commissioners, use of water.....	1,329.50	
		<u>\$2,247.79</u>

## CARRYING WATER.

Eva M. Bean .....	\$19.00	
Emma J. Ela .....	19.00	
G. M. Morse .....	19.00	
Levi Proctor .....	3.00	
Michael Sullivan .....	11.00	
		<u>\$71.00</u>

## USE OF TEAMS.

Charles W. Bickford .....	\$150.00	
Maude E. Brown .....	54.00	
Curtis W. Davis .....	150.00	
Emma J. Ela .....	25.00	
Clydie M. Flanders .....	12.50	
Marion F. Partridge .....	60.00	
N. Gertrude Pyne.....	7.00	
H. G. Wilder .....	12.00	
Mary E. Walker .....	12.50	
		<u>\$483.00</u>

## NEAL HEARING.

Marion D. Ames, traveling expenses.....	\$5.00	
Rena P. Bartlett, taking evidence and type- writing same .....	5.00	
Elsie D. Fairbanks, traveling expenses .....	5.00	
Elmer D. Goodwin, telegrams to teachers....	2.00	
Allan E. Herrick, traveling expenses.....	3.56	
G. H. Libby, traveling expenses.....	6.40	
Annie M. Vose, traveling expenses .....	5.00	
		<u>\$31.96</u>



## SCHOOL ENUMERATION.

## LABOR.

Carl Bjorkman .....	\$22.50
Charles W. Brown .....	23.00
William E. Clark .....	34.50
James Costakis .....	28.17
Harvey L. Currier .....	90.67
George A. Doherty .....	20.00
Herman Eberlin .....	25.00
Harry Fitzgerald .....	22.50
William Fitzsimmons .....	39.33
Edward H. Fradd .....	29.00
John F. Gillis .....	88.75
John J. Grauer .....	25.00
Charles B. Houden .....	26.92
E. E. Hubbell .....	100.00
John J. Joyal .....	39.33
John A. Kenney .....	22.50
James Looney .....	28.17
Frank Lundberg .....	27.50
Thomas F. McCarthy .....	24.50
Thomas McDerby .....	27.50
Joseph McDonough .....	29.67
John F. Madden .....	20.00
Joseph Morrison .....	25.00
Arthur Provost .....	21.92
John J. Sayers .....	28.17
Joseph Sharek .....	30.50
N. Sleeper .....	22.50
L. M. Streeter .....	50.50

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 \$973.10

 Yawman & Erbe Manufacturing Co., 1 filing  
 case .....

17.50

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 \$990.60

## SUNDRIES.

G. L. Carpi, labor, manual training .....	\$37.50
John B. Clarke Co., printing blanks, cards...	52.00
A. W. French, extra services .....	50.00
D. A. Gallagher, rent of Mechanics' hall.....	50.00
W. P. Goodman, rubber bands.....	2.50
William Heron, Jr., engrossing diplomas....	26.00
J. H. Hesser, engrossing diplomas .....	39.15
A. A. Jenkins, tuning pianos .....	21.00

J. G. Jones' Transfer, freight and cartage...	\$20.70	
G. H. Libby, postage.....	4.14	
New England Telephone & Telegraph Co., service .....	3.10	
Novelty Co., rent of typewriter.....	7.50	
Oak Hill Lodge, rent of hall .....	24.00	
People's Laundry Co., rent of store.....	34.00	
Trustees First M. E. church, rent of vestry..	20.00	
G. A. Wagner, services, Chabot v. C. W. Davis .....	25.00	
Williams Manufacturing Co., rental of type- writers .....	30.00	
Yawman & Erbe Manufacturing Co., case and cards .....	23.80	
		<u>\$470.39</u>
Total expenditures .....		<u><u>\$4,294.74</u></u>

### Care of Schoolrooms.

Appropriation .....	\$8,500.00	
Transferred from unappropriated money....	193.20	
		<u><u>\$8,693.20</u></u>

### EXPENDITURES.

#### JANITORS.

John S. Avery .....	\$549.96
Edwin N. Baker .....	349.92
Marshall N. Badger .....	225.00
Charles Berglund .....	333.28
Eva M. Bean .....	39.00
Joseph H. Buffum .....	699.96
John Cedar .....	124.98
Charles H. Corey .....	225.00
Emma J. Ela .....	38.00
John Foley .....	39.00
William F. Henderson .....	549.96
Louis Hueber .....	225.00
Charles F. Jack .....	699.96
George H. Jack .....	649.92
George Lawrence .....	31.50
William H. Newry .....	662.46
W. J. Powers .....	649.92
Asa M. Smith .....	654.42

Mary E. Stevens .....	\$18.00	
Denis Sullivan .....	112.50	
Arabella Rickaby .....	62.00	
C. A. Underhill .....	649.92	
Inez M. Warren .....	40.00	
		<hr/>
		\$7,629.66

## SUNDRIES.

Amoskeag Manufacturing Co., soap.....	\$6.00	
Boston Spray Co., 5 gallons "La-Loo".....	6.25	
Boyd Brothers, teams .....	8.00	
John Cedar, paid for repairing tools.....	.60	
Curtis W. Davis, paid for cleaning, oiling floors, etc. ....	59.95	
Ernest E. Dill, cleaning .....	18.80	
S. A. Felton & Son Co., brushes and dusters,	62.40	
Carl Friborg, oil .....	.75	
James H. Griffin, labor of men and teams..	64.25	
Frank Gowing, truckage.....	10.25	
W. S. Holt & Son, mops.....	13.50	
C. F. Jack, kerosene oil.....	1.40	
J. G. Jones, freight and cartage.....	7.88	
Manchester Hardware Co., brooms, paper, lawn mowers, ash barrels, etc.....	137.75	
Masury, Young & Co., "Nodusto" and pads for applier .....	350.80	
T. A. McDonald, brooms .....	3.25	
Mrs. W. H. Marshall, cleaning.....	3.00	
J. B. McCrillis & Son, blacksmithing.....	1.20	
N. H. Chimney Sweep Co., cleaning chimney flues .....	8.50	
F. F. Osgood, hose .....	21.58	
H. W. Parker, soap .....	35.50	
Pike & Heald Co., flue brush.....	.28	
G. H. Rutter, brooms.....	3.00	
A. M. Smith, cash paid for helper.....	4.50	
Standard Oil Co., dressing and oilers.....	66.69	
Sulpho-Naphthol Co., "Sulpho-Naphthol".....	23.97	
Swan & Finch Co., oil .....	16.25	
C. A. Underhill, cash paid for helper.....	1.50	
John B. Varick Co., ash-cans, ladder, paper, dusters .....	124.99	
Walsh & Cummings, disinfectant.....	.75	
		<hr/>
		\$1,063.54
Total expenditures .....		<hr/>
		\$8,693.20

## Evening Schools.

Appropriation .....	\$1,500.00	
Received from fines .....	150.00	
		<u>\$1,650.00</u>

## EXPENDITURES.

## SALARIES.

Lee C. Abbott .....	\$58.00	
Honorie J. Crough .....	116.00	
Cora W. Cummings .....	49.00	
Elizabeth Doherty .....	51.00	
Susie C. Fogg .....	58.00	
Madge Hall .....	58.00	
Carroll S. King .....	116.00	
Frank J. Kerns .....	58.00	
Margaret G. Linen .....	58.00	
John M. Lyons .....	56.00	
Frank Lyons .....	58.00	
Kitty F. McDonald .....	33.00	
Myra V. Moore .....	58.00	
Adelia Murphy .....	58.00	
John J. McAllister, Jr.....	116.00	
Lawrence A. O'Connor .....	58.00	
Florence Prescott .....	46.00	
Edwin M. Rogers .....	58.00	
Carlena Savory .....	58.00	
Minnie Sullivan .....	58.00	
Arthur J. Tonery .....	58.00	
Genieve B. Wilson .....	58.00	
Susan J. Woodman .....	58.00	
		<u>\$1,453.00</u>

## JANITORS.

John S. Avery .....	\$30.00	
John Cedar .....	28.00	
William Henderson .....	36.50	
		<u>\$94.50</u>

## SUNDRIES.

E. M. Bryant & Co., lamps.....	\$4.34
John B. Clarke Co., printing cards.....	10.25
D. C. Heath & Co., books.....	35.83
J. G. Jones Transfer, cartage.....	2.00

# TEACHERS' SALARIES.

133

Pike & Heald Co., mantles, chimneys, labor,	\$14.89	
James A. Scully, use of tables.....	20.00	
		<u>\$87.31</u>
Total expenditures .....		\$1,634.81
Transferred to unappropriated money .....		15.19
		<u><u>\$1,650.00</u></u>

## Evening School.—Mechanical Drawing.

Appropriation .....	<u><u>\$300.00</u></u>
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### EXPENDITURES.

#### SALARIES.

H. W. Allen, teacher.....	\$120.00	
John M. Kendall, teacher.....	120.00	
		<u>\$240.00</u>

#### SUNDRIES.

Charles Berglund, janitor.....	\$3.50	
John Cedar, janitor .....	6.50	
John B. Varick Co., triangles .....	9.12	
		<u>\$19.12</u>

Total expenditures .....	\$259.12
Transferred to unappropriated money .....	40.88
	<u><u>\$300.00</u></u>

## Teachers' Salaries.

Appropriation .....	<u><u>\$109,500.00</u></u>
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### EXPENDITURES.

#### SALARIES.

January .....	\$11,239.45
February .....	11,513.85
March .....	11,449.32
April .....	8,588.49
May .....	11,396.79
June .....	11,669.54
September .....	8,428.78

October .....	\$11,849.23	
November ... ..	11,886.24	
December .....	11,454.88	
		<hr/>
		\$109,476.57
Total expenditures .....		<hr/>
Transferred to unappropriated money.....		23.43
		<hr/>
		\$109,500.00
		<hr/> <hr/>

### Free Text-Books.

Appropriation .....	\$7,000.00	
Received from sale of books.....	194.66	
		<hr/>
		\$7,194.66
		<hr/> <hr/>

### EXPENDITURES.

#### FREE TEXT-BOOKS AND SUPPLIES.

Allyn & Bacon.....	\$181.29
American Book Co.....	1,047.45
Henry Amigh .....	7.70
S. D. Angell .....	55.81
Atkinson, Mentzer & Grover.....	60.51
The Barton Company .....	1.50
Bausch & Lomb Optical Co.....	120.41
E. E. Babb & Co.....	621.51
Bobbs-Merrill Co.....	20.00
Milton Bradley Co.....	358.05
A. L. Burt Co.....	6.65
C. C. Burchard & Co.....	272.28
Carter, Rice & Co.....	3.96
T. H. Castor & Co.....	33.15
E. R. & W. P. Coburn.....	4.75
Crown Ribbon & Carbon Manufacturing Co.,	15.00
DeWolfe & Fiske Co.....	1.34
Oliver Ditson Co.....	4.65
L. M. Folsom .....	5.80
Foote Mineral Co.....	61.93
Frost & Adams Co.....	40.60
R. D. Gay .....	3.80
Ginn & Co.....	495.74
W. P. Goodman.....	48.35
Granite State Rubber Co.....	.20



Gregg Publishing Co.....	\$28.83	
J. L. Hammett Co.....	175.72	
D. C. Heath & Co.....	253.34	
James W. Hill Co.....	38.39	
C. Howard Hunt Pen Co.....	74.25	
Houghton, Mifflin & Co.....	19.52	
R. K. Horne .....	1.00	
Kenney Brothers & Wolkins .....	635.35	
George F. King & Co.....	171.13	
L. E. Knott Apparatus Co.....	534.44	
William R. Jenkins Co.....	11.26	
J. B. Lippencott Co.....	88.53	
Marine Biological Laboratory.....	26.62	
Charles E. Merrill Co .....	28.50	
National Book Cover Co.....	1.35	
New England Reed Co.....	8.71	
F. E. Nelson .....	.95	
Prang Educational Co.....	60.40	
Pike & Heald Co....	6.00	
B. H. Sanborn & Co.....	74.05	
Sibley & Co.....	11.56	
Sinclair Manufacturing Co.....	87.88	
Silver, Burdett & Co.....	365.20	
Thompson-Brown Co.....	159.96	
Underwood Typewriter Co.....	3.00	
John B. Varick Co.....	38.08	
Wadsworth, Howland & Co.....	30.90	
Walsh & Cummings .....	35.18	
J. H. Wiggin & Co.....	1.45	
J. Arthur Williams .....	5.60	
		<hr/>
		\$6,449.58

## SUNDRIES.

J. G. Jones, freight and cartage .....	\$97.44	
Fannie L. Sanborn, superintendent's clerk..	600.00	
		<hr/>
		\$697.44
Total expenditures .....		\$7,147.02
Transferred to unappropriated money .....		47.64
		<hr/>
		\$7,194.66
		<hr/> <hr/>

## Manual Training.

Appropriation .....	\$600.00
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## EXPENDITURES.

## SUNDRIES.

F. E. Browne, expenses to Boston.....	\$3.34	
Mrs. N. J. Davis, laundering and repairing aprons .....	1.50	
Eagle Pencil Co., pencils .....	20.55	
Ford & Kimball, castings.....	2.18	
Frost & Adams, pencil sharpener .....	2.07	
Head & Dowst Co., wood, sundry kinds....	257.75	
J. Hodge, lumber.....	24.66	
Romeyn B. Hough, books "American Woods"	15.00	
Manning, Maxwell & Moore, machinist tools,	71.00	
Palmer-Parker Co., woods, sundry kinds....	19.52	
Sherwin-Williams Co., stain, wax, etc.....	5.16	
John B. Varick Co., hardware and tools....	176.64	
		<u>\$599.37</u>
Total expenditures .....		\$599.37
Transferred to unappropriated money.....		.63
		<u>\$600.00</u>

## School Bell in Amoskeag.

Balance from last year unexpended.....	<u>\$700.00</u>
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## EXPENDITURES.

J. H. Mendell Co., building tower, furnishing bell, etc.,	\$687.86	
Total expenditures .....	\$687.86	
Transferred to unappropriated money .....	12.14	
	<u>\$700.00</u>	

## Cemetery Wall at Varney School.

Appropriation .....	<u>\$800.00</u>
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## EXPENDITURES.

Charles A. Bailey, retaining wall, per con- tract .....	\$772.56	
Street & Park commissioners, cement.....	19.50	
	<u>\$792.06</u>	
Total expenditures .....	\$792.06	
Transferred to unappropriated money .....	7.94	
	<u>\$800.00</u>	

**Grading and Concreting Around Highland School.**

Balance from last year unexpended.....	\$193.42
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**EXPENDITURES.**

Transferred to new account .....	\$193.42
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**Steam Boiler, Webster School.**

Appropriation .....	\$1,000.00
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**EXPENDITURES.**

Stevens & Bradley, 1 boiler, per contract.....	\$995.00
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Total expenditures .....	\$995.00
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Transferred to unappropriated money.....	5.00
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	\$1,000.00
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**Schoolhouse Fire Escapes.**

Appropriation .....	\$2,000.00
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**EXPENDITURES.**

Head & Dowst Co., material and labor.....	\$217.56
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Arthur P. Knapp, 9 fire escapes.....	1,560.00
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Edward Sargent, 5 keys.....	1.25
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John B. Varick Co., hardware.....	158.83
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	\$1,937.64
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* Total expenditures .....	\$1,937.64
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Transferred to unappropriated money.....	62.36
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	\$2,000.00
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**Paupers Off Farm.**

Appropriation .....	\$13,000.00
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Received for board of inmates at county farm .....	65.01
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Transferred from unappropriated money....	5,282.44
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	\$18,347.45
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## EXPENDITURES.

## GROCERIES AND MEATS.

Annis Grain & Lumber Co.....	\$40.00
E. C. Blake & Co.....	6.85
Bourgeois & Pamarlo.....	10.00
Bourgeois & Co.....	6.00
George Boisvert .....	147.78
J. B. Boulanger .....	152.00
Bureau & Leblond .....	149.50
John Cashman & Son.....	186.93
John Carrier .....	5.00
Arthur Charpentier .....	23.00
Dancose Brothers .....	391.90
Danault & Gingras .....	8.00
J. B. Daigle ....	73.92
N. Daigle .....	20.00
J. N. DesGrosseilliers .....	100.00
L. F. Dusseault & Co.....	977.14
Dumas & Prince .....	24.00
A. E. Eastman .....	26.83
Carl Friborg .....	124.99
Arthur Gagne .....	296.00
Gaudette Brothers .....	340.57
Gingras & Danault .....	48.00
James J. Griffin .....	53.94
Griffin & Duguay .....	177.70
Gorman Brothers .....	17.81
Felix Harbour .....	198.00
Reinhardt Hecker .....	120.00
J. F. Healy .....	519.38
John F. Healy .....	15.00
F. P. Johnson .....	296.14
M. D. Knox .....	47.40
T. J. Labrecque .....	212.04
Lamoureux Brothers .....	174.51
Maggie Landrigan .....	111.10
A. S. Lasalle .....	16.00
Omer Legare .....	38.00
Longval & Normand .....	9.60
Oscar McDuffie .....	508.06
John McDonough .....	1,116.09
M. J. McNulty.....	21.00
McQuestion & Lewis .....	8.00
John Murphy .....	22.75
C. E. Newcomb .....	7.92

Noel & Michaud .....	\$40.00
O. H. Noury .....	384.00
Noury Brothers .....	154.00
Hertel Pariseau .....	130.23
E. W. Perkins .....	7.28
Edmond Pinard .....	202.25
A. D. Prince .....	58.04
F. H. Poore .....	179.75
Eugene Quirin .....	1,098.00
A. L. Robitaille .....	15.00
H. J. Rogler .....	88.00
W. J. Rowell .....	27.00
Roy & Cloutier .....	58.20
Joseph Schwartz .....	10.00
M. A. Sheehan .....	1,372.50
C. D. Steele & Co.....	61.76
Joseph Trahan .....	30.00
Tennant & Haggerty .....	32.74
Euclide Voissard .....	177.10
Wiggin-Young Co .....	52.00

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 \$11,026.70

## FUEL.

Charles Boiscclair .....	\$70.90
L. B. Bodwell & Co.....	12.00
Napoleon Bournival .....	28.00
J. H. DeCourey Co.....	288.76
W. E. Dunbar & Sons .....	111.50
Fellows & Son.....	2.50
A. Ferland .....	88.75
C. A. & A. W. Flint .....	29.50
William Forrest .....	26.00
Gideon D. Hebert .....	37.00
J. B. Lacasse .....	8.00
B. J. Mack .....	85.76
Joseph Masse .....	159.55
Manchester Coal & Ice Co.....	30.50
Maxwell Ice Co.....	127.25
Moore & Preston Coal Co.....	30.13
Northern New England Coal Co.....	77.03
Omer Pepin .....	62.00
Omer Potvin .....	19.00
Joseph Pouliot .....	25.00
D. M. Poore .....	2.00
Raiche & Laforce.....	59.50
John P. Russell .....	138.50
E. V. Turcotte estate .....	2.13
J. F. Wyman .....	51.50

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 \$1,572.76

## BOARD, CARE AND RENT.

Mrs. Olive Auger .....	\$44.00
Mrs. Eva M. Bartlett .....	76.00
Mrs. Emily Blanchet .....	18.00
Mary Bohan .....	18.00
Joseph Charpentier .....	56.00
Victoria Chaput .....	60.00
Mrs. Michael Clare .....	20.00
George B. Chandler .....	9.00
Mrs. James Coakley .....	96.00
Abraham Cote .....	120.00
L. M. Connor .....	12.00
Ann O. Connor .....	10.00
Elizabeth Daley .....	104.00
Etta DeCourcy .....	10.50
Mrs. Duclou .....	10.00
Edgerly & Whittier .....	32.00
Elliot Hospital .....	52.00
Margaret Healy .....	156.00
Hillsborough County Farm .....	663.30
Infant Asylum .....	262.00
Ellen Kearns .....	8.00
Alex Lacerte .....	7.00
Maggie Landrigan .....	4.00
Melvin A. Lewis .....	10.00
Mrs. Michael Mahoney .....	140.00
Joseph Marcoux .....	48.00
Mary Marr .....	120.00
Joseph McCloskey .....	20.00
E. F. Miller .....	13.00
F. C. Miville .....	45.00
Mary Monroe .....	72.00
Mrs. Mary Murphy .....	30.00
Notre Dame Hospital .....	54.25
Notre Dame Orphanage .....	184.50
Mrs. Victor Oneto .....	36.00
Mrs. Mary O'Brien .....	25.30
Old Ladies' Home .....	200.00
Mrs. Emilie Paquette .....	16.00
Mary Pellerin .....	120.00
Mrs. Mary Quinn .....	40.00
Margaret Reagan .....	120.00
Mary Rivard .....	72.00
Euphenie Simard .....	16.00
F. J. Simon .....	20.00



Mrs. Annie Sullivan .....	\$40.00
St. Joseph's Orphanage .....	590.00
St. Patrick's Orphanage .....	257.50
St. Pierre Orphanage .....	165.00
Mrs. Annie Webber .....	104.00
Jane Wolfe .....	234.00

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 \$4,640.35

## BOOTS AND SHOES.

A. T. Beaumier .....	\$6.50
Besse, Eldridge Co.....	2.75
J. W. Campbell .....	11.85
E. C. Chagnon & Co.....	15.85
Costello Brothers .....	3.25
Patrick Costello .....	13.20
M. A. Currier .....	8.24
G. W. Dodge Shoe Co.....	32.50
A. L. Dyer .....	4.00
C. E. Green & Co.....	5.00
Walter Heath .....	3.00
P. F. Toole .....	36.90
D. F. Shea .....	73.30
Arthel Simard .....	157.15

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 \$373.49

## CLOTHING.

Ludger Beaudet & Co.....	\$76.00
Besse, Eldridge Co.....	5.83
Joseph Bourassa .....	3.75
C. M. Floyd .....	4.00
Gazaille & Co.....	1.00
Lane & Duzois .....	31.00
Mrs. L. Prince & Co.....	5.00
L. O. Simard .....	48.10

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 \$174.68

## MEDICINE, MEDICAL SERVICES, FUNERAL EXPENSES.

Joseph P. Devine, burial outfit.....	\$25.00
J. Doucet & Co., medicine.....	36.60
W. M. Eames Drug Co., medicine .....	19.10
A. L. Gadbois, funeral outfits .....	50.00
A. L. Gadbois, use of ambulance.....	10.00
Oscar L. Giguere, medicine.....	65.87
Kerwin & Sheehan, medicine and use of am- bulance .....	60.15

J. A. Marshall, medicine.....	\$19.70	
A. A. Macleay, M. D., medical treatment....	13.00	
Dr. R. F. McDonald, treating teeth .....	2.50	
F. C. Miville, medicine.....	3.25	
McDonough & Shea, burial outfits.....	45.00	
A. F. Precourt, medicine .....	3.56	
A. J. Precourt & Co., medicine .....	3.54	
E. V. Turcotte, burial outfit.....	25.00	
F. L. Wallace, burial outfit.....	25.00	
Walsh & Cummings, medicine .....	108.33	
		<hr/>
		\$524.60
SUNDRIES.		
Boston & Maine Railroad, transportation to New York .....	\$6.40	
E. A. Stratton Co., printing and stationery..	28.47	
		<hr/>
		\$34.87
Total expenditures .....		<hr/>
		\$18,347.45
		<hr/>

### Indigent Soldiers.

Appropriation .....	\$300.00	
Transferred from unappropriated money....	222.05	
		<hr/>
		\$522.05
		<hr/>

### EXPENDITURES.

#### GROCERIES.

L. F. Dusseault & Co.....	\$88.00	
Oscar McDuffie .....	7.00	
A. D. Prince .....	40.10	
F. H. Poore .....	199.20	
		<hr/>
		\$334.30

#### FUEL.

J. H. DeCourcy Co.....	\$4.00	
W. E. Dunbar & Sons.....	31.75	
B. J. Mack .....	9.00	
Maxwell Ice Co.....	46.00	
		<hr/>
		\$90.75

#### RENT.

J. A. Burpee .....	\$70.00	
G. H. Chandler .....	27.00	
		<hr/>
		\$97.00
Total expenditures .....		<hr/>
		\$522.05
		<hr/>

**Board of Examiners of Plumbers.**

Appropriation .....	\$50.00
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**EXPENDITURES.**

John B. Clarke Co., printing annual report,	\$3.60	
Pike & Heald Co., supplies .....	23.96	
Temple & Farrington Co., binding book.....	.85	
		<u>\$28.41</u>
Total expenditures .....		\$28.41
Transferred to unappropriated money.....		21.59
		<u>\$50.00</u>

**Band Concerts.**

Appropriation .....	\$450.00
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**EXPENDITURES.**

Manchester Cadet Band .....	\$150.00	
Manchester City Band .....	100.00	
Lafayette Band .....	100.00	
Turner Band .....	100.00	
		<u>\$450.00</u>

**Militia.**

Appropriation .....	\$1,200.00
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**EXPENDITURES.**

Company A, First Regiment, N. H. N. G.....	\$100.00
Company B, First Regiment, N. H. N. G.....	100.00
Company C, First Regiment, N. H. N. G.....	100.00
Company F, First Regiment, N. H. N. G.....	100.00
Company K, First Regiment, N. H. N. G.....	100.00
Company L, First Regiment, N. H. N. G.....	100.00
Battery, N. H. N. G.....	100.00
Camp Derwip, No. 184, Spanish-American War Veterans .....	100.00
First Infantry Band.....	50.00
Louis Bell Post, No. 3, G. A. R.....	100.00
Joseph Freschl Post, No. 3, G. A. R.....	100.00

Manchester War Veterans .....	\$100.00	
Regimental headquarters .....	50.00	
		<u>\$1,200.00</u>
Total expenditures .....		<u><u>\$1,200.00</u></u>

### Decoration of Soldiers' Graves.

Appropriation .....	<u><u>\$500.00</u></u>
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#### EXPENDITURES.

Joseph Freschl Post, G. A. R.....	\$100.00	
Louis Bell Post, G. A. R.....	400.00	
		<u>\$500.00</u>
Total expenditures .....		<u><u>\$500.00</u></u>

### Purchase of Land Sold for Taxes.

Appropriation .....	<u><u>\$5,000.00</u></u>
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#### EXPENDITURES.

George E. Morrill.....	\$2,875.27	
Total expenditures .....	\$2,875.27	
Transferred to unappropriated money.....	2,124.73	
		<u>\$5,000.00</u>

### Abatement of Taxes.

Appropriation .....	\$2,000.00	
Transferred from unappropriated money....	13.57	
		<u>\$2,013.57</u>

#### EXPENDITURES.

John Britton .....	\$3.70	
Moise Byron .....	1.49	
J. Frank Hill .....	6.48	
Marion Howe .....	3.70	
Manchester & Concord Express Co.....	8.81	
George E. Morrill, sundry persons.....	1,989.39	
		<u>\$2,013.57</u>
Total expenditures .....		<u><u>\$2,013.57</u></u>

**Revision of Ordinances.**

Balance from last year unexpended.....	\$600.00
Appropriation .....	500.00
	<u>\$1,100.00</u>

**EXPENDITURES.**

Transferred to new account .....	<u>\$1,100.00</u>
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**State Tax.**

Appropriation .....	<u>\$78,100.00</u>
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**EXPENDITURES.**

State of New Hampshire.....	<u>\$78,100.00</u>
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**County Tax.**

Appropriation .....	<u>\$48,853.12</u>
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**EXPENDITURES.**

County of Hillsborough.....	<u>\$48,853.12</u>
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**Manchester Historical Society.**

Appropriation .....	<u>\$600.00</u>
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**EXPENDITURES.**

Manchester Historical Society, printing early records of town of Derryfield .....	<u>\$600.00</u>
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**Animal Rescue League.**

Appropriation .....	<u>\$300.00</u>
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**EXPENDITURES.**

Animal Rescue League, amount appropriated.....	<u>\$300.00</u>
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**Elliot Hospital.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Elliot Hospital, amount appropriated .....	\$300.00
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**Infant Asylum, Our Lady of Perpetual Help.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Infant Asylum, Our Lady of Perpetual Help, amount appropriated .....	\$300.00
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**Hospice St. Vincent de Paul.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Hospice St. Vincent de Paul, amount appropriated.....	\$300.00
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**Notre Dame de Lourdes Hospital.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Notre Dame de Lourdes Hospital, amount appropri- ated .....	\$300.00
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**Orphelinat St. Pierre.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Orphelinat St. Pierre, amount appropriated.....	\$300.00
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**Sacred Heart Hospital.**

Appropriation .....	\$300.00
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## EXPENDITURES.

Sacred Heart Hospital, amount appropriated.....	\$200.00
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**St. Joseph's Boys' Orphanage.**

Appropriation .....	\$200.00
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## EXPENDITURES.

St. Joseph's Boys' Orphanage, amount appropriated....	\$200.00
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**Women's Aid Home.**

Appropriation .....	\$200.00
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## EXPENDITURES.

Women's Aid Home, amount appropriated.....	\$200.00
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**W. C. T. U. Mercy Home.**

Appropriation .....	\$200.00
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## EXPENDITURES.

W. C. T. U. Mercy Home, amount appropriated.....	\$200.00
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**Manchester Boys' Club.**

Appropriation .....	\$200.00
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## EXPENDITURES.

Manchester Boys' Club, Annie B. Lincoln, treasurer.....	\$200.00
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**West Side Reading Room.**

Appropriation .....	\$100.00
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## EXPENDITURES.

West Side Reading Room, amount appropriated.....	\$100.00
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## Resolution Raising Money and Making Appropriations for the Year 1908.

*Resolved* by the Board of Common Council of the City of Manchester,  
as follows:

That the sum of seven hundred thousand, two hundred and twenty-eight dollars and twelve cents (\$700,228.12) be raised for the use of said city for the year nineteen hundred and eight by tax on the polls and estates liable to be taxed thereon, in said city, which sum, together with such unappropriated money as may be now in the city treasury or may hereafter come into it, shall be appropriated as follows, to wit:

### CENTRAL DEPARTMENT.

Interest .....	\$44,000.00
Sinking fund .....	36,000.00
City hall .....	4,500.00
Printing and stationery .....	2,400.00
Incidental expenses .....	8,000.00
Land sold for taxes .....	5,000.00
Mayor's incidentals .....	300.00
City officers' salaries .....	26,700.00
Payment of funded debt.....	10,000.00
Land taken for new highways.....	3,700.00
Printing and binding revised city laws and ordinances,	500.00

### AUDITOR'S DEPARTMENT.

Auditor's department .....	\$2,300.00
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### DEPARTMENT OF TAXES.

State tax .....	\$78,100.00
County tax .....	48,853.12

### ASSESSORS' DEPARTMENT.

Assessors' department .....	\$8,500.00
Abatement of taxes .....	2,000.00

### ENGINEER'S DEPARTMENT.

Engineer's department .....	\$8,600.00
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### STREET AND SEWER DEPARTMENT.

Street and park commission .....	\$3,300.00
Snow and ice .....	9,000.00
Repairs of highways .....	49,200.00
New highways .....	4,000.00

Watering streets .....	\$7,000.00
Paving streets .....	6,000.00
Macadamizing streets .....	6,000.00
Grading for concrete .....	3,500.00
Scavenger service .....	25,000.00
Street sweeping .....	6,000.00
Bridges .....	8,000.00
City teams .....	10,000.00
Repairs of sewers .....	8,000.00
New sewers .....	25,000.00
Brown-tail and gypsy moth .....	5,000.00

## SCHOOL DEPARTMENT.

Books and stationery .....	\$50.00
Care of rooms .....	8,500.00
Contingent expenses .....	3,000.00
Evening schools .....	1,500.00
Evening school, mechanical drawing.....	300.00
Free text-books .....	7,000.00
Fuel .....	11,500.00
Furniture and supplies .....	1,500.00
Manual training .....	600.00
Printing and advertising .....	350.00
Repairs of schoolhouses.....	8,000.00
Teachers' salaries .....	109,500.00
Cemetery wall at Varney school.....	800.00
Steam boiler, Webster-street school.....	1,000.00
Addition to Hallsville school.....	18,000.00
Alterations of schoolhouses for purposes of fire protection (to be expended by committee from the school board to be appointed by the mayor).....	2,000.00

## FIRE DEPARTMENT.

Fire department .....	\$80,650.00
Fire-alarm telegraph .....	2,600.00
Hydrant service .....	20,925.00
Combination hose-wagon, Gen. Stark engine-house.....	1,200.00
Combination hose-wagon, Fulton engine-house.....	1,200.00

## PUBLIC BUILDINGS AND PLACES.

Repairs of buildings.....	\$7,500.00
Alterations of Gen. Stark engine-house.....	1,000.00
Alterations of Wilson Hill engine-house.....	500.00
Pine Grove cemetery .....	12,000.00
Valley cemetery .....	5,000.00

Bank wall for Valley cemetery .....	\$1,500.00
Improvement of pond at Pine Grove cemetery.....	2,500.00
Amoskeag cemetery .....	500.00
Merrill yard .....	100.00
Care of commons .....	4,500.00
Stark park .....	1,000.00
Derryfield park .....	1,000.00
Lafayette park .....	2,000.00
Miscellaneous playgrounds .....	200.00
City yard .....	6,000.00

## HEALTH DEPARTMENT.

Health department .....	\$11,500.00
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## POLICE DEPARTMENT.

Police station .....	\$3,000.00
Police court .....	2,900.00
Police commission .....	55,000.00

## CITY LIBRARY.

City library .....	\$8,000.00
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## PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Paupers off farm .....	\$13,000.00
Indigent soldiers .....	300.00
Women's Aid Home .....	300.00
Elliot hospital .....	300.00
Sacred Heart hospital .....	300.00
Notre Dame hospital .....	300.00
Mercy Home .....	300.00
Infant Asylum .....	300.00
Decoration of soldiers' graves .....	500.00
Joseph Freschl Post, G. A. R.....	\$100.00
Louis Bell Post, G. A. R.....	400.00
Company A, First Regiment.....	100.00
Company B, First Regiment.....	100.00
Company C, First Regiment.....	100.00
Company F, First Regiment.....	100.00
Company K, First Regiment.....	100.00
Company L, First Regiment.....	100.00
Battery, N. H. N. G.....	100.00
Headquarters and band, First Regiment.....	100.00
Joseph Freschl Post, G. A. R.....	100.00
Louis Bell Post, G. A. R.....	100.00
Manchester War Veterans .....	100.00

## RESOLUTION RAISING MONEY.

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Spanish War Veterans .....	\$100.00
Band concerts .....	450.00
Manchester Historical Society .....	600.00
Boys' Club .....	200.00
Orphelinat St. Pierre.....	300.00
Examiners of plumbers .....	50.00
West Side reading room.....	100.00
St. Joseph's Boys' Orphanage.....	300.00
Animal Rescue League .....	300.00
Hospice St. Vincent de Paul.....	300.00

## LIGHTING STREETS DEPARTMENT.

Lighting streets .....	\$60,500.00
Passed to be enrolled, March 13, 1908.	

## REPORT OF THE CITY AUDITOR.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.

Resident and nonresident.	Polls.		Dogs.*			Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.	Male.	Feml'e	Tax.				No.	Value.		No.	Value.
891....	10,367	\$1,036,700	713	49	\$811.00	\$14,124,570.00	\$2,332,752.00	\$382,626.00	2,151	\$185,866.00	\$53,496.00	671	\$12,944.00
892....	10,673	1,067,300	700	43	786.00	14,910,978.00	2,355,780.00	375,694.00	2,235	200,182.00	53,500.00	616	12,580.00
893....	11,835	1,183,500	.....	.....	.....	16,003,370.00	2,554,818.00	425,334.00	2,777	210,032.00	59,516.00	551	11,656.00
894....	12,103	1,210,300	.....	.....	.....	16,956,070.00	2,421,954.00	519,500.00	2,698	200,376.00	57,526.00	452	9,618.00
895....	11,244	1,244,400	.....	.....	.....	17,688,224.00	2,435,546.00	149,592.00	2,639	196,264.00	59,128.00	431	9,710.00
896....	12,583	1,258,300	.....	.....	.....	18,358,266.00	2,421,862.00	147,148.00	2,644	184,790.00	57,440.00	410	9,308.00
897....	12,921	1,292,100	.....	.....	.....	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	507	10,920.00
898....	12,808	1,280,800	.....	.....	.....	19,175,434.00	2,782,386.00	167,160.00	2,640	171,242.00	56,668.00	551	12,400.00
899....	13,137	1,313,700	.....	.....	.....	19,301,762.00	3,939,419.00	176,388.00	2,648	169,977.00	58,129.00	619	14,570.00
900....	13,759	1,375,900	.....	.....	.....	19,569,249.00	3,599,072.00	1,293,555.00	2,755	174,593.00	88,500.00	704	16,690.00
901....	13,976	1,397,600	.....	.....	.....	19,922,261.00	3,888,517.00	394,436.00	2,669	174,242.00	99,976.00	551	14,076.00
902....	14,079	1,407,900	.....	.....	.....	19,983,327.00	3,536,583.00	1,173,222.00	2,621	180,157.00	120,369.00	519	13,414.00
903....	14,384	1,438,400	.....	.....	.....	20,137,200.00	3,303,445.00	1,210,597.00	2,577	179,065.00	129,404.00	554	16,039.00
904....	14,451	1,445,100	.....	.....	.....	20,465,749.00	3,400,749.00	1,258,931.00	2,483	177,580.00	136,762.00	586	15,564.00
905....	14,650	1,465,000	.....	.....	.....	20,966,778.00	3,858,690.00	1,125,553.00	2,384	196,597.00	150,365.00	696	20,989.00
906....	15,481	1,548,100	.....	.....	.....	22,133,160.00	4,800,392.00	195,024.00	2,288	189,238.00	159,026.00	698	19,736.00
907....	15,800	1,580,000	.....	.....	.....	23,401,086.00	4,940,178.00	162,330.00	2,406	207,395.00	170,351.00	695	19,978.00
908....	16,266	1,626,600	.....	.....	.....	24,034,758.00	4,714,079.00	374,506.00	2,262	201,191.00	187,240.00	721	20,316.00

\* Dog tax repealed. See chapter 6, January Laws of 1893.



TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—Continued.

STATEMENT OF TAXATION.

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Hogs.		Sheep over six months old		Boats.		Stock in banks and other corporations, value.	Stock in public funds and bonds, value.	Factories and their machinery, value.	Total value.	Rate of tax per hundred.	Tax levied.	Total including dog tax.
No.	Value	No.	Value.	No.	Value.							
115	\$332.00	12	\$30.00	.....	.....	\$290,100.00	\$ 19,900.00	\$6,432,576.00	\$24,872,492.00	\$1.78	\$442,730.72	\$443,541.76
85	572.00	14	42.00	.....	\$226.00	301,700.00	4,400.00	6,649,000.00	25,332,044.00	1.95	505,679.17	506,465.17
12	120.00	13	38.00	.....	52.00	317,600.00	5,600.00	6,667,906.00	27,439,742.00	1.85	507,640.68	507,640.68
73	820.00	40	80.00	.....	316.90	230,000.00	22,100.00	6,763,050.00	28,391,710.00	1.78	505,372.44	505,372.44
52	524.00	29	62.00	.....	174.00	203,100.00	1,400.00	6,774,950.00	28,861,122.00	1.74	502,183.02	502,183.02
26	260.00	43	90.00	.....	.....	249,104.00	2,000.00	6,755,100.00	29,443,668.00	1.86	547,651.50	547,651.50
45	470.00	33	56.00	.....	.....	233,264.00	.....	7,068,650.00	30,486,946.00	2.08	634,127.80	634,127.80
69	490.00	43	64.00	.....	610.00	250,934.00	.....	7,090,300.00	30,988,488.00	1.95	604,280.37	.....
45	418.00	11	24.00	.....	756.00	229,460.00	.....	6,294,181.00	31,491,754.00	1.95	614,096.93	.....
35	354.00	7	14.00	.....	904.00	213,344.00	.....	6,464,589.00	32,706,794.00	1.90	621,428.47	.....
12	92.00	6	18.00	.....	1,200.00	223,780.00	.....	6,924,919.00	33,041,112.00	1.98	654,214.00	.....
.....	.....	8	24.00	.....	1,400.00	227,982.00	.....	6,399,956.00	33,044,334.00	2.25	743,497.53	.....
7	100.00	.....	.....	.....	832.00	210,272.00	.....	6,194,496.00	32,819,850.00	2.10	689,217.79	.....
2	20.00	.....	220.00	.....	410.00	185,950.00	.....	6,102,524.00	33,179,294.00	1.95	647,003.29	.....
27	190.00	5	16.00	.....	1,337.00	287,220.00	.....	6,103,731.00	34,176,406.00	2.08	710,870.13	.....
18	224.00	.....	.....	.....	1,314.00	239,002.00	.....	6,198,294.00	35,413,510.00	1.91	676,402.89	.....
23	272.00	.....	.....	.....	871.00	233,746.00	4,700.00	6,247,487.00	36,968,394.00	1.85	683,915.28	.....
22	274.00	.....	.....	700.00	810.00	250,818.00	2,200.00	6,333,222.00	37,746,708.00	1.86	702,088.28	.....

## Assessors' Oath.

We, the Assessors of the city of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes, we appraise all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor. *So help us God.*

## Valuation and Taxes.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1908 was as follows:

	Valuation	Rate	Tax
Real estate .....	\$30,367,980	\$18.60	\$564,844.43
Personal property .....	5,752,128	18.60	106,989.57
	\$36,120,108		\$671,834.00
Number of polls, 16,266.....	1,626,600	18.60	30,254.76
	\$37,746,708		\$702,088.76
Fractional loss .....			.48
			\$702,088.28
School tax .....			152.90
Brown-Tail moth tax .....			783.84
Total tax levied .....			\$703,025.02

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads .....	\$57,867.32
On savings banks .....	79,313.30
On insurance companies .....	3,611.75
On literary fund .....	3,578.40
Grand tax total.....	\$847,395.79

For further information in relation to taxes collected by the state, see State Treasurer's report.

## TAX VALUATIONS, ETC., FROM 1890 TO 1908, INCLUSIVE.

YEAR.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890.....	\$24,207,740	\$462,809.17	9,723	\$1.91	\$100
1891.....	24,872,492	443,541.76	10,367	1.78	100
1892.....	25,932,044	506,465.17	10,673	1.95	100
1893.....	27,439,742	507,640.68	11,835	1.85	100
1894.....	29,391,710	505,372.44	12,103	1.78	100
1895.....	28,861,122	502,183.02	12,244	1.74	100
1896.....	29,443,668	547,651.50	12,583	1.86	100
1897.....	30,486,946	634,127.80	12,921	2.08	100
1898.....	30,988,488	604,280.57	12,808	1.95	100
1899.....	31,491,784	614,096.93	13,137	1.95	100
1900.....	32,706,794	621,428.47	13,759	1.90	100
1901.....	33,041,112	654,214.00	13,976	1.98	100
1902.....	33,034,334	743,497.53	14,079	2.25	100
1903.....	32,819,850	689,217.79	14,384	2.10	100
1904.....	33,179,294	647,003.29	14,451	1.95	100
1905.....	34,176,466	710,870.13	14,650	2.03	100
1906.....	35,413,510	676,402.89	15,481	1.91	100
1907.....	36,968,394	683,915.28	15,800	1.85	100
1908.....	37,746,708	702,088.28	16,266	1.86	100

**Statement of Account of George E. Morrill, Tax Collector for the City of Manchester, N. H., June 1, 1908.**

	Amount outstanding June 1, 1907.	Collected	Balance outstanding June 1, 1908.
Tax list, 1885 .....	\$1,205.71		\$1,205.71
1886 .....	1,264.85		1,264.85
1887 .....	1,163.94		1,163.94
1888 .....	1,580.13		1,580.13
1889 .....	1,395.13		1,395.13
1890 .....	1,687.08		1,687.08
1891 .....	1,966.63		1,966.63
1892 .....	2,582.12		2,582.12
1893 .....	4,095.13		4,095.13
1894 .....	3,514.05		3,514.05
1895 .....	5,004.92		5,004.92
1896 .....	4,992.00		4,992.00
1897 .....	5,296.91		5,296.91
1898 .....	5,629.21		5,629.21
1899 .....	5,675.09		5,675.09
1900 .....	5,150.11		5,150.11
1901 .....	6,068.01		6,068.01
1902 .....	6,501.97	\$9.00	6,492.97
1903 .....	7,162.87	14.70	7,148.17
1904 .....	6,644.18	13.05	6,631.13
1905 .....	8,353.03	23.86	8,329.17
1906 .....	8,826.49	239.63	8,586.86
Amount collected .....		\$299.63	
Credit by cash, as per treasurer's receipt No. 184 in 1907; and Nos. 14, 140, 152 in year 1908 .....		\$299.63	
Interest collected .....		\$1,760.65	
Credit by cash, as per treasurer's receipts, Nos. 12 and 150 in year 1908.....		\$1,760.65	
Costs collected .....		\$1,776.47	
Credit by cash, as per treasurer's receipts, Nos. 13 and 151 in year 1908.....		\$1,776.47	
DR.			
1907.			
June 1. To warrant resident list.....	\$682,258.52		
warrant nonresident list .....	1,663.80		
voluntary list .....	720.25		
warrant school tax .....	162.80		
			\$684,805.37

CR.

1907, 1908.

By cash paid treasurer, per vouchers Nos. 131, 133, 141, 161, 171, 178, 186, 196, 206, 278, 280 in year 1907, and 11, 27, 70, 111, 146, 147, 149 in year 1908;.....	\$674,518.51	
By abatements, vouchers Nos. 186, 253 in year 1907, and 139 in 1908 .....	2,126.24	
By unpaid taxes July 1, 1908.....	8,160.62	
	<hr/>	\$684,805.37

MANCHESTER, N. H., July 30, 1908.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,  
*City Auditor.*

TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due January 1, 1908, assessed in 1908.	Discounts and abatements, 1908.	Collected in 1908.	Due December 31, 1908.
Taxes of 1885.....	\$1,205.71	.....	.....	\$1,205.71
“ of 1886.....	1,264.85	.....	.....	1,264.85
“ of 1887.....	1,163.94	.....	.....	1,163.94
“ of 1888.....	1,580.13	.....	.....	1,580.13
“ of 1889.....	1,395.13	.....	.....	1,395.13
“ of 1890.....	1,687.08	.....	.....	1,687.08
“ of 1891.....	1,966.63	.....	.....	1,966.63
“ of 1892.....	2,582.12	.....	.....	2,582.12
“ of 1893.....	4,095.13	.....	.....	4,095.13
“ of 1894.....	3,514.05	.....	.....	3,514.05
“ of 1895.....	5,004.92	.....	.....	5,004.92
“ of 1896.....	4,992.00	.....	.....	4,992.00
“ of 1897.....	5,296.91	.....	.....	5,296.91
“ of 1898.....	5,629.21	.....	.....	5,629.21
“ of 1899.....	5,675.09	.....	.....	5,675.09
“ of 1900.....	5,150.11	.....	.....	5,150.11
“ of 1901.....	6,068.01	.....	.....	6,068.01
“ of 1902.....	6,501.97	.....	\$9.00	6,492.97
“ of 1903.....	7,162.87	.....	14.70	7,148.17
“ of 1904.....	6,644.18	.....	13.05	6,631.13
“ of 1905.....	8,353.03	.....	23.86	8,329.17
“ of 1906.....	8,826.49	5.73	221.83	8,598.03
“ of 1907.....	{ 1,090.09 69,356.42 }	868.40	61,683.52	7,894.59
“ of 1908.....	703,025.02	1,100.93	635,918.32	66,006.07



## Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE, ARTICLE 82, PAGE 38, PUBLIC STATUTES.

### ENCOURAGEMENT OF LITERATURE, ETC.

ART. 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government and spreading the opportunities and advantages of education through the various parts of the country, being highly conducive to promote this end, it shall be the duty of legislators and magistrates, in all future periods of this government, to cherish the interests of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity; industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

### PUBLIC STATUTES, CHAPTER 55.

"SECT. 2. Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state or town used for public purposes, and almshouses on county farm."

"SECT. 11. Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town."

### OPINION OF THE SUPREME COURT.

58 N. H. Rep., page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction hereto-

fore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1899, chapter 199.

Elliot Hospital, N. H., Laws of 1881, chapter 178.

Manchester Woman's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

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**Schedule of Property used for Religious, Charitable and Educational Purposes, and Exempt from Taxation by Law, not including that owned by the City of Manchester.**

Convent, Sister Jesus Mary, French Catholic; East Spruce street, near Beech:

Building .....	\$10,000.00	
13,000 square feet of land .....	2,600.00	
		<hr/>
		\$12,600.00

Convent, Sisters of Mercy, Catholic; 415 Union street, corner Laurel:

Building .....	\$30,000.00	
12,600 square feet of land.....	6,300.00	
		<hr/>
		\$36,300.00

Mount St. Mary's Academy, Catholic; from convent lot east to Beech street:

Building .....	\$25,000.00	
31,500 square feet of land .....	9,450.00	
		<hr/>
		\$34,450.00

Lot south side of Laurel street, corner of Union street, Catholic; McDonald school:

Building .....	\$35,000.00	
10,800 square feet of land .....	5,000.00	
		<hr/>
		\$40,000.00

Hospital of the Sacred Heart and Old Ladies' Home, Catholic; Amherst and Hanover streets:

Building .....	\$14,000.00	
40,500 square feet of land.....	30,375.00	
		<hr/>
		\$44,375.00

St. Patrick's Orphan Asylums, Catholic; 184 Hanover street:		
Building .....	\$47,000.00	
40,500 square feet of land.....	40,500.00	
		\$87,500.00
St. Joseph's High School, Catholic; Lowell street, corner of Birch:		
Building .....	\$12,000.00	
8,000 square feet of land.....	8,000.00	
		\$20,000.00
Union-street school, Catholic; corner of Union and Laurel streets:		
Building .....	\$4,000.00	
5,000 square feet of land.....	2,500.00	
		\$6,500.00
St. Agnes' School, Catholic; corner Cedar and Pine streets:		
Building .....	\$12,000.00	
20,000 square feet of land.....	3,200.00	
		\$15,200.00
St. Joseph's school for girls, Catholic; corner Pine and Lowell streets:		
Building .....	\$10,000.00	
Land included in cathedral lot.		
		\$10,000.00
Convent of Holy Angels, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building .....	\$15,000.00	
22,500 square feet of land.....	4,500.00	
		\$19,500.00
St. George's school, French Catholic; corner Pine and Orange streets:		
Building .....	\$30,000.00	
10,000 square feet of land .....	5,000.00	
		\$35,000.00
Monastery of the Precious Blood; 555 Union street:		
Building .....	\$2,500.00	
6,750 square feet of land.....	2,025.00	
		\$4,525.00
Orphanage school, Beauport, Wayne, and Putnam streets; French Catholic:		
Building .....	\$25,000.00	
30,000 square feet of land .....	6,000.00	
		\$31,000.00
St. Augustine's academy, French Catholic; corner Beech and Spruce streets:		
Building .....	\$8,000.00	
15,000 square feet of land.....	4,500.00	
		\$12,500.00

St. Marie's parochial school, French Catholic; corner Wayne and Cartier streets:		
Building .....	\$12,000.00	
25,000 square feet of land.....	2,000.00	
		\$14,000.00
Residence priest St. Augustine's church, French Catholic; 383 Beech street:		
Building .....	\$6,000.00	
7,500 square feet of land.....	1,875.00	
		\$2,500.00
	\$7,785.00	
Orphan Children's school, parish of St. Augustine; 251, 253 Lake Avenue:		
Building .....	\$12,000.00	
10,000 square feet of land .....	5,000.00	
		\$17,000.00
Holy Rosary school; 30 Cedar street:		
Building .....	\$8,750.00	
2,500 square feet of land.....	1,250.00	
		\$10,000.00
Residence priest St. Anne's church, Catholic; 231 Merrimack street:		
Building .....	\$5,000.00	
8,820 square feet of land.....	2,646.00	
		\$2,500.00
	\$7,646.00	
Residence of Catholic bishop; 145 Lowell street:		
Building .....	\$40,000.00	
24,000 square feet of land.....	12,000.00	
		\$2,500.00
	\$52,000.00	
Residence priest St. George's church, French Catholic; Orange street, corner Pine:		
Building .....	\$2,500.00	
10,000 square feet of land.....	4,000.00	
		\$2,500.00
	\$6,500.00	
Residence priest St. Mary's church, French Catholic; 376 Beauport street, West Manchester:		
Building .....	\$2,500.00	
5,000 square feet of land.....	1,000.00	
		\$2,500.00
	\$3,500.00	
St. Anne's church, Catholic; Union street, corner Merrimack:		
Building .....	\$30,000.00	
10,180 square feet of land.....	5,090.00	
		\$35,090.00

St. Augustine's church, French Catholic; Beech street, corner East Spruce:		
Building .....	\$28,000.00	
13,000 square feet of land.....	3,250.00	
		\$31,250.00
St. Joseph's cathedral and chapel, Catholic; Pine street, corner Lowell:		
Building .....	\$70,000.00	
40,000 square feet of land.....	30,375.00	
		\$100,375.00
St. Marie's church, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building .....	\$25,000.00	
70,000 square feet of land.....	14,000.00	
		\$39,000.00
St. Raphael's church and school, German Catholic; Third street; corner Ferry, West Manchester:		
Building .....	\$35,000.00	
8,000 square feet of land.....	3,400.00	
		\$38,400.00
St. George's church, French Catholic; Pine street, corner Orange:		
Building .....	\$75,000.00	
18,690 square feet of land.....	7,614.00	
		\$82,614.00
St. Patrick's church and school, Catholic; Kelley street, Cartier street, and Coolidge avenue:		
School building .....	\$20,000.00	
56,281 square feet of land.....	4,502.00	
		\$24,502.00
St. Antoine de Padoue church, Catholic; 260 Belmont street:		
Building .....	\$4,000.00	
		\$4,000.00
Residence priest St. Antoine de Padoue's church, Cath- olic; 258 Belmont street:		
Building .....	\$5,500.00	
Land .....	4,000.00	
		\$2,500.00
		\$9,500.00
St. Hedwidge church, Polish Catholic; Merrimack, corner Pine street:		
Building .....	\$1,000.00	
Land .....	6,000.00	
		\$9,000.00
Residence priest St. Hedwidge church, same lot:		
Building .....	\$1,000.00	
		\$2,500.00

## First Baptist church; Union street, corner Concord:

Building .....	\$28,000.00
11,250 square feet of land .....	6,750.00

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 \$34,750.00

## First Freewill Baptist church; Merrimack street, corner Chestnut:

Building .....	\$12,400.00
12,600 square feet of land.....	12,600.00

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 \$25,000.00

## Second Baptist church, Merrimack street, near Pine:

Building .....	\$9,000.00
9,450 square feet of land.....	3,780.00

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 \$12,780.00

## People's Baptist church; Chestnut street, corner Concord:

Building .....	\$8,000.00
3,200 square feet of land .....	2,000.00

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 \$10,000.00

## First Congregational church; Hanover street, corner Union:

Building .....	\$30,000.00
43,200 square feet of land.....	34,560.00

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 \$64,560.00

## Second Congregational church; Market street, corner Franklin:

Building .....	\$25,000.00
19,000 square feet of land.....	19,000.00

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 \$44,000.00

## Third Congregational church; South Main street, corner Milford, West Manchester:

Building .....	\$8,000.00
33,000 square feet of land.....	3,000.00

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 \$11,000.00

## First M. E. church; Valley street, corner Jewett:

Building .....	\$8,000.00
11,400 square feet of land.....	1,000.00

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 \$9,000.00

## St. Paul's M. E. church; Union street, corner Amherst:

Building .....	\$25,000.00
10,010 square feet of land.....	6,000.00

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 \$31,000.00

## Trinity M. E. church; School street:

Building .....	\$2,000.00
12,176 square feet of land.....	3,000.00

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 \$5,000.00

## St. James M. E. church; Penacook street, corner Pine:

Building .....	\$9,000.00
11,000 square feet of land.....	2,200.00

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 \$11,200.00



Grace church, Episcopal; Lowell street, corner Pine:		
Building .....	\$20,000.00	
9,300 square feet of land .....	6,975.00	
	<hr/>	\$26,975.00
First Unitarian church, Concord street, corner Beech:		
Building .....	\$24,000.00	
13,500 square feet of land.....	6,000.00	
	<hr/>	\$30,000.00
First Universalist church; Lowell street, near Elm:		
Building .....	\$17,000.00	
10,000 square feet of land.....	15,000.00	
	<hr/>	\$32,000.00
Christian church, Protestant; Hall street, corner Merrimack:		
Building .....	\$9,000.00	
Land .....	1,000.00	
	<hr/>	\$10,000.00
First Presbyterian church, German; Second street, corner Bath, West Manchester:		
Building .....	\$3,000.00	
10,000 square feet of land.....	2,500.00	
	<hr/>	\$5,500.00
Swedish Lutheran church, Protestant; Sagamore, corner Pine:		
Building .....	\$7,500.00	
10,950 square feet of land.....	2,000.00	
	<hr/>	\$9,500.00
Swedish Evangelical Mission: Pine street, corner Orange:		
Building .....	\$6,500.00	
Land .....	4,100.00	
	<hr/>	\$10,600.00
Swedish Baptist church; Arlington street, near Maple:		
Building .....	\$5,000.00	
4,432 square feet of land.....	1,100.00	
	<hr/>	\$6,100.00
Second Advent church; Amherst street, between Pine and Union:		
Building .....	\$5,100.00	
4,500 square feet of land .....	3,375.00	
	<hr/>	\$8,475.00
City Mission chapel, Protestant; Merrimack street, corner Beech:		
Building .....	\$7,000.00	
12,600 square feet of land.....	6,000.00	
	<hr/>	\$13,000.00

Westminster Presbyterian church; Brook street, corner Hazel:

Building .....	\$15,000.00
10,000 square feet of land.....	2,500.00

\$17,500.00

South Manchester Union chapel, Protestant; Elm street, south:

Building .....	\$2,500.00
10,747 square feet of land.....	1,000.00

\$3,500.00

First Church of Christ, Scientist; Harrison street, corner Albert:

Building .....	\$14,000.00
Land .....	5,000.00

\$19,000.00

Episcopal Mission church; North Main street, corner School, West Manchester:

Building .....	\$3,500.00
19,412 square feet of land.....	4,000.00

\$7,500.00

Residence pastor St. Paul's M. E. church; Union street, near Amherst:

Building .....	\$3,000.00
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\$2,500.00

Residence pastor First Congregational church; 590 Beech street, near Bridge:

Building .....	\$5,000.00
8,100 square feet of land.....	2,400.00

\$2,500.00

\$7,400.00

Residence pastor Grace Episcopal church; corner of Harrison and Union streets:

Building .....	\$6,000.00
15,000 square feet of land.....	3,750.00

\$2,500.00

\$9,750.00

German School Society; Third, Bath, and Ferry streets:

Building .....	\$4,500.00
10,187 square feet of land.....	2,500.00

\$7,000.00

Elliot Hospital, Protestant; East Manchester:

Building .....	\$23,000.00
Land .....	7,000.00

\$30,000.00

Elliot Hospital lot; Hanover street, corner Chestnut:

Building .....	\$3,000.00
Land .....	13,000.00

\$16,000.00

## Elliot Hospital:

Land and buildings, Main street.....	\$4,000.00	
Land and buildings, Quincy street.....	2,500.00	
		\$6,500.00

## Women's Aid Home; Pearl street, corner Beech:

Building .....	\$15,000.00	
57,530 square feet of land .....	10,000.00	
		\$25,000.00

## Women's Aid Home; Bridge street, corner Chestnut:

Buildings .....	\$9,000.00	
6,037.5 square feet of land.....	3,000.00	
		\$12,000.00

## Manchester Children's Home; Webster street:

Building .....	\$20,000.00	
55,000 square feet of land.....	2,500.00	
		\$22,500.00

## Residence pastor Swedish Lutheran church; Sagamore street, corner Pine:

Building .....	\$3,000.00	
10,200 square feet of land.....	1,020.00	
		\$2,500.00
	\$1,020.00	

## Gale Home:

One half Martin's block, Elm street.....	\$25,000.00	
Land and building, Pearl street, corner Ash .....	25,000.00	
		\$50,000.00

## Masonic Home, Beech street:

Building .....	\$17,000.00	
56,700 square feet of land.....	7,500.00	
		\$24,500.00

One half land and buildings, 193 Pearl street .....

\$1,750.00

One half land and buildings, 266 Pearl street .....

900.00

One half land and buildings, 270 Pearl street .....

900.00

One half land and buildings, 274 Pearl street .....

900.00

One half five acres of land on North Union street .....

325.00

\$4,775.00

## EXEMPT FROM TAXATION.

Church property, Catholic.....	\$364,231.00	
Convent property, Catholic.....	72,925.00	
Parochial residences, Catholic.....	17,500.00	
Parochial schools, Catholic.....	245,650.00	
Hospitals and other charitable institutions..	131,875.00	
		\$832,181.00

Church property, Protestant.....	\$457,940.00	
Parochial residences, Protestant.....	10,000.00	
Private school property, Protestant.....	7,000.00	
Hospitals and other charitable institutions..	191,275.00	
	<hr/>	\$666,215.00
Total .....		<hr/> \$1,498,396.00

## TAXABLE.

Land and buildings, Catholic .....	\$73,431.00	
Land and buildings, Protestant .....	14,170.00	
	<hr/>	\$87,601.00
Total exempt and taxable.....		<hr/> \$1,585,997.00

## STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is payable.	INTEREST.		
							Rate percent.	When payable.	Where payable.
Dec. 16, 1865	Water bonds.	50	\$1,000	\$50,000	\$50,000	December 16, 1915	4	Semi annual	At Suffolk Bank, Boston, Mass.
Oct. 1, 1884	"	50	1,000	50,000	50,000	October 1, 1914	4	"	"
Nov. 1, 1893	"	100	1,000	100,000	100,000	November 1, 1913	4 1-2	"	"
Aug. 1, 1893	"	100	1,000	100,000	100,000	August 1, 1913	5	"	"
Jan. 1, 1892	"	100	1,000	100,000	100,000	January 1, 1912	4	"	"
Jan. 1, 1897 } Refunded.	"	100	1,000	100,000	100,000	1, 1917	4	"	"
July 1, 1895 } Refunded.	"	100	1,000	100,000	100,000	July 1, 1910	4	"	"
July 1, 1895 } Refunded.	"	100	1,000	100,000	100,000	1, 1915	4	"	"
July 1, 1881	Bridge bonds.	15	100	1,500	.....	1, 1911	4	"	At Treas'r Office, Manchester, N.H.
1, 1881	"	39	500	19,500	.....	1, 1911	4	"	"
1, 1881	"	39	1,000	39,000	.....	1, 1911	4	"	"
April 1, 1905	City bonds.	50	1,000	50,000	60,000	April 1, 1925	3 1-2	"	At Suffolk Bank, Boston, Mass.
1, 1907	"	50	1,000	50,000	50,000	1, 1927	4	"	"
1, 1885	"	50	1,000	50,000	50,000	1, 1909	4	"	"

## STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.—Continued.

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is pay- able.	INTEREST.		
							Rate per ct.	When payable.	Where payable.
April 1, 1885	City bonds.	5	\$1,000	\$5,000	\$5,000	April 1, 1911	4	Semi-annu'l	At Suffolk Bank, Boston, Mass.
July 1, 1883	Improv'm't bonds	100	1,000	100,000	100,000	January 1, 1913	4	"	"
June 1, 1894	"	100	1,000	100,000	100,000	April 1, 1914	4	"	"
April 1, 1885	"	100	1,000	100,000	100,000	" 1, 1915	4	"	"
April 1, 1886	"	100	1,000	100,000	100,000	" 1, 1916	4	"	"
July 1, 1885	School bonds.	70	1,000	70,000	70,000	{ \$10,000 July 1, 1909 and \$10,000 annu- ally thereafter }	4	"	"
July 1, 1886	"	40	1,000	40,000	40,000	July 1, 1916	4	"	"
April 1, 1899	City bonds.	100	1,000	100,000	100,000	April 1, 1919	3 1-2	"	"
July 1, 1902	Municipal bonds.	80	1,000	80,000	80,000	July 1, 1922	3 1-2	"	"
					\$1,605,000				



REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$50,000 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are not included in the \$1,605,000.

Total amount of bonded debt, including cemetery bonds,	\$1,655,000.00
Net indebtedness for water purposes.....	700,000.00

Net debt after deducting water debt.....	\$955,000.00
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As shown in the assessors' books for the year 1908.

The assessed value of personal property, including poll tax .....	\$7,378,728.00
The assessed value of real estate.....	30,367,980.00

Total value for taxation.....	\$37,746,708.00
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Tax rate, 1.86 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation.....	2.53
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation.....	4.33
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Population, census of 1900.....	56,987
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No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

A sinking fund was established in 1893.

Total amount of sinking fund December 31, 1908, \$648,047.18.

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70, New Hampshire Laws of 1871 entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of \$300,000 by laws of 1891, chapter 26; and \$200,000 by laws of 1895, chapter 172.

#### SUMMARY OF CITY DEBT.

Amount of debt January 1, 1908.....	\$1,665,000.00
Accrued interest on bonded debt, December 31, 1908....	23,978.00

\$1,688,978.00

Amount of bonded debt paid in 1908.....	10,000.00
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Total indebtedness December 31, 1908.....	\$1,678,978.00
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#### AVAILABLE ASSETS.

Net cash on hand December 31, 1908.....	\$54,986.56
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Taxes uncollected, list of 1908.....	66,006.07
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Stock of Suncook Valley Railroad, estimated value.....	14,500.00
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Sinking fund December 31, 1908.....	648,047.18
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\$783,539.81

## STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

Year.	Six per cent water bonds.	Four per cent water bonds.	Four and a half and five per cent water bonds.	Five per cent cemetery bonds.	Six per cent to fund debt.	Four per cent to build McGregor bridge.	Four per cent to fund debt.	Four per ct. improvement bonds and 3 1-2 per cent city bonds.	Four per cent school bonds and Granite bridge.	Total of annual interest.
1890...	\$27,000	\$6,000	.....	\$623.75	\$7,000	\$2,400	\$6,200	.....	.....	\$49,423.75
1891....	4,000	8,000	.....	813.92	7,200	2,400	6,200	.....	.....	48,613.92
1892....	18,000	12,000	.....	1,001.00	7,200	2,400	6,200	.....	.....	46,800.00
1893....	18,000	12,000	.....	1,041.66	7,200	2,400	6,200	.....	.....	46,841.66
1894....	18,000	14,000	\$9,500	1,550.00	.....	2,400	6,200	\$8,000	.....	59,650.00
1895...	18,000	16,000	9,500	1,812.50	.....	2,400	6,200	12,300	\$4,800	68,712.50
1896....	12,000	20,000	9,500	2,112.50	.....	2,400	6,200	16,000	14,400	82,612.50
1897....	9,000	22,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	80,600.00
1898....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	79,000.00
1899....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	11,400	81,500.00
1900....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	10,520	80,620.00
1901....	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	8,800	78,900.00
1902....	3,000	24,000	9,500	2,500.00	.....	2,400	6,200	20,850	8,200	76,650.00
1903....	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,400	73,300.00
1904....	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,000	72,900.00
1905....	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,600	72,250.00
1906....	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,200	71,850.00
1907....	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,800	67,450.00
1908....	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,400	67,050.00

## Valuation of Real Estate Owned by the City.

## High school, Beech street, corner Lowell:

Building .....	\$170,000.00	
59,400 square feet of land .....	17,820.00	
		<hr/>
		\$187,820.00

## Franklin-street school, Franklin street, corner Pleasant:

Building .....	\$16,000.00	
19,200 square feet of land.....	19,200.00	
		<hr/>
		\$35,200.00

## Spring-street school, Spring street:

Building .....	\$13,000.00	
13,600 square feet of land.....	13,600.00	
		<hr/>
		\$26,600.00

## Lincoln-street school, Lincoln street, corner Merrimack:

Building .....	\$15,000.00	
40,000 square feet of land.....	8,000.00	
		<hr/>
		\$53,000.00

## Ash-street school, Ash street, corner Bridge:

Building .....	\$50,000.00	
57,537 square feet of land.....	17,262.00	
		<hr/>
		\$67,262.00

## Main-street school, North Main street, West Manchester:

Building .....	\$6,000.00	
40,293.4 square feet of land.....	10,073.00	
		<hr/>
		\$16,073.00

## Webster-street school, Webster street:

Building .....	\$39,000.00	
55,714 $\frac{3}{4}$ square feet of land.....	13,928.00	
		<hr/>
		\$52,928.00

## Blodget-street school, Blodget street:

Building .....	\$1,500.00	
9,000 square feet of land.....	3,600.00	
		<hr/>
		\$5,100.00

## Lowell-street school, Lowell street, corner Chestnut:

Building .....	\$1,000.00	
9,000 square feet of land.....	9,000.00	
		<hr/>
		\$10,000.00

## Merrimack-street school, Merrimack street, corner Union:

Building .....	\$15,000.00	
12,600 square feet of land.....	6,300.00	
		<hr/>
		\$21,300.00

## Parker school, South Main street, West Manchester:

Building .....	\$20,000.00	
13,650 square feet of land.....	2,047.00	
		<hr/>
		\$22,047.00

Bakersville school, Elm street, south:		
Building .....	\$10,000.00	
24,184 square feet of land.....	3,628.00	
		<hr/> \$13,628.00
Stark District school, River road, north:		
Building .....	\$1,000.00	
43,560 square feet of land.....	100.00	
		<hr/> \$1,100.00
Amoskeag school, Front street, Amoskeag:		
Building .....	\$8,000.00	
6,000 square feet of land.....	1,000.00	
		<hr/> \$9,000.00
Rimmon school, corner Amory and Dubuque streets:		
Building .....	\$17,400.00	
16,600 square feet of land.....	2,490.00	
		<hr/> \$19,890.00
Goffe's Falls school, Goffe's Falls:		
Building .....	\$11,000.00	
47,916 square feet of land .....	250.00	
		<hr/> \$11,250.00
Harvey District school, Nutt road:		
Building .....	\$2,000.00	
21,780 square feet of land.....	100.00	
		<hr/> \$2,100.00
Webster Mills school, Webster Mills:		
Building .....	\$400.00	
5,445 square feet of land.....	100.00	
		<hr/> \$500.00
Old Hallsville school, East Manchester:		
Building .....	\$500.00	
30,075 square feet of land.....	3,008.00	
		<hr/> \$3,508.00
Youngsville school, Youngsville:		
Building .....	\$500.00	
51,228 square feet of land.....	100.00	
		<hr/> \$600.00
Mosquito Pond school, Mosquito Pond:		
Building .....	\$400.00	
10,890 square feet of land.....	100.00	
		<hr/> \$500.00
Pearl-street school:		
Building .....	\$18,700.00	
Land .....	3,200.00	
		<hr/> \$21,900.00
Varney school, Bowman street, corner Mast, West Manchester:		
Building .....	\$43,750.00	
Land .....	6,700.00	
		<hr/> \$50,450.00

# VALUATION OF REAL ESTATE OWNED BY THE CITY. 175

## New Hallsville school, Jewett street, corner Young, East Manchester:

Building .....	\$47,800.00	
44,000 square feet of land.....	3,300.00	
		<hr/>
		\$51,100.00

## Straw school, Chestnut street, corner Harrison:

Building .....	\$30,000.00	
32,400 square feet of land.....	16,200.00	
		<hr/>
		\$46,200.00

## New Wilson school, Wilson, Cedar, and Auburn streets:

Building .....	\$30,000.00	
40,000 square feet of land.....	5,000.00	
		<hr/>
		\$35,000.00

## South Manchester school, Titus avenue:

Building .....	\$12,000.00	
48,400 square feet of land.....	1,000.00	
		<hr/>
		\$13,000.00

## Chandler school, Concord street, corner Ashland:

Building .....	\$37,300.00	
23,239 square feet of land.....	4,675.00	
		<hr/>
		\$41,975.00

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\$819,031.00

## ENGINE-HOUSES.

### Engine-house and stable, Central Station, Vine street:

Building .....	\$31,800.00	
21,718.86 square feet of land.....	25,438.00	
		<hr/>
		\$57,238.00

### North Main-street engine-house, North Main street, West Manchester:

Building .....	\$18,000.00	
11,819 square feet of land.....	2,955.00	
		<hr/>
		\$20,955.00

### Webster-street engine-house, Webster street, corner Chestnut:

Building .....	\$12,000.00	
8,510 square feet of land.....	2,180.00	
		<hr/>
		\$14,180.00

### Merrimack engine-house, Lake avenue:

Building .....	\$15,000.00	
10,000 square feet of land.....	3,000.00	
		<hr/>
		\$18,000.00

### Hosehouse and cottage, Maple street, corner East High:

Building .....	\$3,000.00	
18,330 square feet of land.....	3,666.00	
		<hr/>
		\$6,666.00

## Engine-house and wardroom, ward 9, Rimmon and Amory streets, West Manchester:

Building .....	\$22,755.00
6,000 square feet of land.....	870.00

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\$23,625.00

## South Manchester Hosehouse:

Building .....	\$4,200.00
4,278 square feet of land.....	684.00

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\$4,884.00

## Engine-house, Concord street, corner Weston:

Building .....	\$6,800.00
15,000 square feet of land.....	1,000.00

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\$7,800.00

## Hosehouse and wardroom, Somerville street:

Building .....	\$15,000.00
10,527.75 square feet of land.....	950.00

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\$15,950.00

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\$169,298.00

## OTHER PUBLIC BUILDINGS AND LOTS.

## City Library, Dean avenue, corner Franklin street:

Building .....	\$35,000.00
15,000 square feet of land.....	30,000.00

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\$65,000.00

## City Hall, Elm street, corner Market:

Building .....	\$20,000.00
100,000 square feet of land.....	150,000.00

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\$170,000.00

## City farm, Mammoth road:

Building .....	\$5,000.00
40.27 acres, west Mammoth road.....	40,270.00
81.55 acres, east Mammoth road.....	65,240.00

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\$110,510.00

## Court house, Franklin street, corner West Merrimack:

Building .....	\$20,000.00
19,000 square feet of land.....	57,000.00

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\$77,000.00

## Battery building, Manchester street:

Building .....	\$13,000.00
3,400 square feet of land.....	5,100.00

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\$18,100.00

## Police station, Manchester street, corner Chestnut:

Building .....	\$40,000.00
7,500 square feet of land.....	15,000.00

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\$55,000.00



Slayton Lot, Manchester street:		
Police patrol stable.....	\$4,000.00	
Building .....	300.00	
2,908 square feet of land.....	4,700.00	
		\$9,000.00
City stable and other buildings, Franklin street:		
Building .....	\$15,950.00	
44,656 square feet of land.....	89,312.00	
		\$105,262.00
Police station, Clinton street, West Manchester:		
Building .....	\$3,500.00	
3,790 square feet of land.....	1,000.00	
		\$4,500.00
Ward 5 wardroom, Lake avenue:		
Building .....	\$4,500.00	
Land .....	1,000.00	
		\$5,500.00
City stable, district No. 10.....		\$1,200.00
City scales, Franklin street:		
Building .....		\$300.00
Gravel lots, Goffstown:		
2 acres .....		\$400.00
Gravel lot, Youngsville:		
1 acre .....		\$500.00
Gravel lot, East Manchester.....		\$800.00
		\$623,072.00

### Personal Property Owned by the City.

Property in care city engineer.....	\$1,350.00
in care chief engineer fire department.....	125,315.00
in care street and park commission (estimated)	32,336.67
in care superintendent of schools.....	37,049.00
in care of city messenger.....	3,000.00
in care of chief of police and janitor.....	7,250.00
in care trustees city library.....	30,000.00
in care superintendent of Pine Grove cemetery	2,246.87
in care superintendent of Valley cemetery...	437.80
Stock in Suncook Valley Railroad, in care of city treasurer .....	30,000.00
Personal property in care city weigher.....	1,000.00
	\$269,985.34
Uncollected taxes in 1908.....	66,006.07
Net cash in treasury, December 31, 1908.....	54,986.56
	\$120,992.63

**Other Real and Personal Estate Owned by the City.**

Soldiers' monument.....	\$25,000.00
Amoskeag bridge over Merrimack river.....	25,000.00
Fountains and water-troughs on streets and commons..	3,600.00
City tomb .....	10,000.00
McGregor bridge .....	90,000.00
Granite bridge .....	130,000.00
South Main-street bridge, over Piscataquog river.....	28,450.00
Second-street bridge, over Piscataquog river .....	52,036.00
Granite-street bridge, over B. & M. R.....	6,000.00
Print-Works bridge, on Granite, over lower canal.....	10,000.00
Two bridges in highway district No. 9.....	2,000.00
One bridge at Goffe's Falls .....	3,500.00
Expended on construction of sewers.....	842,150.00
	<hr/>
	\$1,227,736.00

**PARKS AND CEMETERIES.**

Valley cemetery, 19.7 acres.....	\$200,000.00
Pine Grove cemetery, Ursula chapel.....	16,000.00
Pine Grove cemetery, about 96 acres.....	46,700.00
Amoskeag cemetery, 1.23 acres.....	4,340.00
Stark park, 28 acres .....	9,000.00
Derryfield park, 76 acres.....	25,000.00
Concord common, 4.48 acres.....	200,000.00
Tremont common, 2.25 acres.....	40,000.00
Hanover common, 3 acres.....	100,000.00
Park common, 3.49 acres .....	60,000.00
Merrimack common, 5.89 acres .....	200,000.00
Wagner's park, 9.85 acres.....	12,000.00
Land on Piscataquog river.....	3,500.00
Lafayette park, 90,500 square feet.....	13,500.00
Prout park, 5.73 acres.....	15,000.00
East Side park, 19,306.46 square feet.....	4,000.00
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	\$949,040.00

**WATER-WORKS.**

Real estate and personal property of water-works, at cost price .....	\$1,958,337.04
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**RECAPITULATION.**

Real estate owned by the city, schoolhouses .....	\$819,031.00
Real estate owned by city .....	623,072.00
Real estate owned by city, engine-houses .....	169,298.00
Water-works at cost price.....	1,958,337.04
Personal property owned by the city.....	269,985.34

Uncollected taxes and cash.....	\$120,992.63
Other real and personal property.....	1,227,736.00
Parks and cemeteries .....	949,040.00
	<hr/>
	\$6,137,492.01

## PROPERTY ACCOUNT.

Inventory of assets, December 31, 1908.....	\$6,137,492.01
Inventory of assets, December 31, 1907.....	6,086,395.50
	<hr/>
Gain in valuation .....	\$47,096.51

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Auditor's Office.

City hall building. Open from 9 to 12 A. M., 1.30 to 5 P. M.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon:

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?

3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements, either of dimensions, quantities or weights, correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair, legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection or suspension for further information or correction as the circumstances of each case may require.



GAS LIGHTS, OIL LAMPS, AND ELEC-  
TRIC LIGHTS.





# GAS LIGHTS, OIL LAMPS, AND ELECTRIC LIGHTS.

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## List of Electric Lights Used by the City of Manchester.

No.	1. A street, opposite No. 73,	arm.
	2. A and South Main,	"
	3. Adams and Cartier,	"
	4. Amherst and Elm,	"
	5. Amherst and Vine,	"
	6. Amherst and Chestnut,	"
	7. Amherst and Pine,	"
	8. Amherst, opposite Y. M. C. A. building,	"
	9. Amherst and Union,	"
	10. Amherst and Beech,	"
	11. Amherst and Ash,	"
	12. Amherst and Maple,	"
	13. Amherst and Dutton,	"
	14. Amherst and Lincoln,	"
	15. Amherst and Ashland,	"
	16. Amherst and Hall,	"
	17. Amory and Morgan,	"
	18. Amory and Essex,	"
	19. Amory and Alsace,	"
	20. Amory, near Montgomery,	"
	21. Amory and Amory street extension,	"
	22. Amory and Rimmon,	pole.
	23. Amory and Dubuque,	"
	24. Amory and Beauport,	"
	25. Amory and Main,	"
	26. Amoskeag bridge, west,	"
	27. Amoskeag bridge, east,	"
	28. Amoskeag and Front,	"
	29. Appleton and Elm,	arm.
	30. Appleton and North Adams,	pole.
	31. Appleton and Union,	arm.
	32. Arlington and Russell,	"
	33. Arlington and Warren,	"
	34. Arlington and Ashland,	"
	35. Auburn and Elm,	"

No. 36.	Auburn and Chestnut,	arm.
37.	Auburn and Pine,	"
38.	Auburn and Union,	pole.
39.	Auburn and Beech,	"
40.	Auburn and Maple,	"
41.	Auburn and Lincoln,	arm.
42.	Auburn and Wilson,	"
43.	Auburn and Canton,	"
44.	Auger avenue and Nutt road,	"
45.	Baker and Brown avenue,	"
46.	Baker and Elm,	"
47.	Baker and Calef road,	"
48.	Bath and Second,	pole.
49.	Beech and Portsmouth Railroad,	arm.
50.	Beech and Lawrence Railroad,	"
51.	Bell and Wentworth,	"
52.	Bismark and Sylvester,	pole.
53.	Blaine and Maine,	arm.
54.	Blaine and Third,	"
55.	Blaine and Second,	"
56.	Blodget and Elm east back,	"
57.	Blodget and Pine,	"
58.	Blodget and Union,	"
59.	Blodget and Walnut,	"
60.	Blodget and Beech,	"
61.	Blodget and Ash,	"
62.	Blodget and Oak,	"
63.	Blodget and Russell,	"
64.	Bow and Bartlett,	"
65.	Boynton street, opposite No. 135,	"
66.	Bowman place and Tilton,	"
67.	Bowman street, opposite No. 172,	"
68.	Bremer and Dubuque,	"
69.	Bridge and McGregor,	"
70.	Bridge and Canal,	"
71.	Bridge and Elm,	"
72.	Bridge and Birch,	"
73.	Bridge and Chestnut,	"
74.	Bridge and Pine,	"
75.	Bridge and Union,	"
76.	Bridge and Walnut,	"
77.	Bridge and Beech,	"
78.	Bridge and Ash,	"
79.	Bridge and Maple,	"
80.	Bridge and Nashua,	"
81.	Bridge and Malvern,	"

No. 82.	Bridge and Linden,	arm.
83.	Bridge and Hall,	"
84.	Bridge and Belmont,	"
85.	Bridge and Weston,	"
86.	Bridge and Highland,	"
87.	Bridge and Mammoth road,	"
88.	Brown avenue and Elm,	"
89.	Brown avenue, opposite No. 445,	"
90.	Brook and Elm,	"
91.	Brook and Chestnut,	"
92.	Brook and Pine,	"
93.	Brook and Hazel,	pole.
94.	Brook and Union,	arm.
95.	Brook and Walnut,	"
96.	Brook and Beech,	"
97.	Brook and Maple,	pole.
98.	C and B,	"
99.	Campbell and Union,	arm.
100.	Candia road and Mammoth road,	"
101.	Carpenter and Elm,	"
102.	Carpenter and Chestnut,	"
103.	Carpenter and Union,	"
104.	Cedar and Canal,	"
105.	Cedar and Franklin,	pole.
106.	Cedar and Elm,	arm.
107.	Cedar and Chestnut,	"
108.	Cedar and Pine,	"
109.	Cedar and Union,	"
110.	Cedar and Beech,	"
111.	Cedar and Maple,	"
112.	Cedar and Lincoln,	"
113.	Central and Bedford,	"
114.	Central street, opposite No. 74,	pole.
115.	Central and Franklin,	arm.
116.	Central and Elm,	"
117.	Central and Chestnut,	"
118.	Central and Pine,	"
119.	Central and Union,	"
120.	Central and Beech,	"
121.	Central and Maple,	"
122.	Central and Lincoln,	"
123.	Central and Wilson,	"
124.	Central and Hall,	"
125.	Central street, opposite No. 536,	"
126.	Charles street,	"
127.	Charleston avenue and Carroll,	"

No. 128.	Chestnut street, opposite No. 855,	arm.
129.	Clarke and River road,	"
130.	Clarke and Elm,	"
131.	Clarke and North Adams,	"
132.	Clarke and Union,	"
133.	Clinton and Dover,	"
134.	Conant and Montgomery,	"
135.	Conant and Rimmon,	pole.
136.	Conant and Beauport,	arm.
137.	Concord and Vine,	"
138.	Concord and Chestnut,	"
139.	Concord and Pine,	"
140.	Concord and Union,	"
141.	Concord and Walnut,	"
142.	Concord and Beech,	"
143.	Concord and Ash,	"
144.	Concord and Maple,	"
145.	Concord and Dutton,	"
146.	Concord and Derry,	"
147.	Concord and Ashland,	"
148.	Concord and Hall,	"
149.	Concord common, west,	pole.
150.	Concord common, east,	"
151.	Coolidge avenue and Beauport,	arm.
152.	Coolidge avenue, near Kelley,	"
153.	Coolidge avenue and Cartier,	"
154.	Dean and Canal,	"
155.	Dean and Elm,	"
156.	Dean avenue and Hampshire lane,	pole.
157.	Dearborn and Taylor,	arm.
158.	Depot and Canal,	pole.
159.	Depot and Franklin,	arm.
160.	Derryfield park,	"
161.	Donald street, near cemetery,	"
162.	Douglas and Railroad,	pole.
163.	Douglas and Barr,	arm.
164.	Douglas and West,	pole.
165.	Douglas and Main,	arm.
166.	Dunbarton road and Front,	"
167.	East High and Nashua,	"
168.	East High and South,	"
169.	East High and Malvern,	"
170.	East High and Ashland,	"
171.	East High and Hall,	"
172.	East High and Buzzell,	"
173.	Spruce and Chestnut west back,	"

No. 174.	East Spruce and Barry avenue,	arm.
175.	East Spruce and Union,	"
176.	East Spruce and Beech,	"
177.	East Spruce and Maple,	"
178.	East Spruce and Lincoln,	"
179.	East Spruce and Wilson,	"
180.	East Spruce and Hall,	"
181.	East Spruce and Massabesic,	pole.
182.	East Spruce and Old Falls road,	arm.
183.	East Spruce and Beacon,	"
184.	Elm street, opposite No. 1966,	"
185.	Elm, below railway bridge,	"
186.	Elm and railway bridge,	pole.
187.	Elm avenue and Elm,	arm.
188.	Ferry and Main,	"
189.	Ferry and Third,	"
190.	Ferry and Turner,	pole.
191.	Front street, opposite No. 367,	"
192.	Gates and Dubuque,	"
193.	Goffstown road and Front,	"
194.	Goffstown road and Omega,	arm.
195.	Grove and Pine,	"
196.	Grove and Union,	"
197.	Grove and Beech,	"
198.	Grove and Belmont,	"
199.	Granite and Green,	"
200.	Granite and West,	"
201.	Granite and Main,	"
202.	Granite and Second,	"
203.	Granite bridge west,	pole.
204.	Granite bridge, center,	"
205.	Granite bridge, east,	"
206.	Granite and State,	arm.
207.	Granite and Bedford,	"
208.	Granite and Canal,	pole.
209.	Granite and Franklin,	"
210.	Green and Elm,	"
211.	Green and Pine,	"
212.	Green and Union,	"
213.	Green and Beech,	"
214.	Grant and Boynton,	"
215.	Hancock and Brown avenue,	"
216.	Hanover common,	"
217.	Hanover and Nutfield lane,	arm.
218.	Hanover and Chestnut,	"
219.	Hanover and Pine,	"

No. 220.	Hanover and Union,	arm.
221.	Hanover and Beech,	"
222.	Hanover and Maple,	"
223.	Hanover and Lincoln,	"
224.	Hanover and Ashland,	"
225.	Hanover and Hall,	"
226.	Hanover and Belmont,	"
227.	Hanover and Beacon,	"
228.	Hanover and Alfred,	"
229.	Hanover and Highland,	pole.
230.	Hanover and Grant,	arm.
231.	Hanover and Lake avenue,	pole.
232.	Hanover and Page,	arm.
233.	Harrison and Elm,	"
234.	Harrison and Chestnut,	"
235.	Harrison and Pine,	"
236.	Harrison and Hazel,	"
237.	Harrison and Union,	"
238.	Harrison and Walnut,	"
239.	Harrison and Beech,	"
240.	Harrison and Ash,	"
241.	Harrison and Maple,	"
242.	Harrison and Oak,	"
243.	Harrison and Russell,	"
244.	Harrison street, opposite No. 329,	"
245.	Harvell and South Main,	"
246.	Hayward and Beech,	"
247.	Hayward and Cypress,	pole.
248.	Hayward and Riley avenue,	arm.
249.	High and Chestnut,	"
250.	High and Pine,	"
251.	High and Union,	"
252.	Hollis and Canal,	"
253.	Hollis, below Elm west back,	"
254.	Hospital avenue and Massabesic,	pole.
255.	Kelley and Rimmon,	arm.
256.	Kelley and Cartier,	pole.
257.	Kelley and Alsace,	arm.
258.	Kidder and Boyden,	pole.
259.	Kidder and Whitney,	"
260.	Kidder and Elm,	"
261.	Lake avenue and Elm,	"
262.	Lake avenue and Chestnut,	"
263.	Lake avenue and Pine,	"
264.	Lake avenue and Union,	"
265.	Lake avenue and Beech,	"



No. 266.	Lake avenue and Maple,	pole.
267.	Lake avenue and Lincoln,	"
268.	Lake avenue and Wilson,	"
269.	Lake avenue and Massabesic,	"
270.	Lake avenue and Belmont,	arm.
271.	Lake avenue and Beacon,	"
272.	Lake avenue, opposite No. 529,	"
273.	Lake avenue and Cass,	pole.
274.	Lake avenue and Canton,	"
275.	Lake avenue and J. Hall road,	"
276.	Langdon and Canal,	arm.
277.	Langdon and Elm west back,	pole.
278.	Laurel and Laurel avenue,	arm.
279.	Laurel and Pine,	"
280.	Laurel and Union,	"
281.	Laurel and Beech,	"
282.	Laurel and Maple,	"
283.	Laurel and Lincoln,	"
284.	Laurel and Wilson,	"
285.	Laurel and Hall,	"
286.	Laurel and Belmont,	"
287.	Laurel and Milton,	"
288.	Laurel and Beacon,	"
289.	Laurel and Cass,	"
290.	Liberty street, opposite No. 93,	"
291.	Lowell south back and Nutfield lane,	"
292.	Lowell and Elm,	"
293.	Lowell and Birch,	"
294.	Lowell and Chestnut,	"
295.	Lowell and Pine,	"
296.	Lowell and Union,	"
297.	Lowell and Walnut,	"
298.	Lowell and Beech,	"
299.	Lowell and Ash,	"
300.	Lowell and Nashua,	"
301.	Lowell and Malvern,	"
302.	Lowell and Ashland,	"
303.	Lowell and Hall,	"
304.	Lowell and Belmont,	"
305.	Manchester and Elm,	"
306.	Manchester and Chestnut,	"
307.	Manchester and Pine,	"
308.	Manchester and Union,	"
309.	Manchester and Beech,	"
310.	Manchester and Maple,	"
311.	Manchester and Lincoln,	"

No. 312.	Manchester and Wilson,	arm.
313.	Manchester and Hall,	"
314.	Manchester and Milton,	pole.
315.	Market and Canal,	arm.
316.	Market and Franklin,	"
317.	Market and Elm,	"
318.	Marion and Main,	pole.
319.	Marion and McGregor,	arm.
320.	Massabesic and Belmont,	pole.
321.	Massabesic and Old Falls road,	"
322.	Massabesic and Cypress,	arm.
323.	Massabesic, north of Valley,	"
324.	Massabesic and J. Hall road,	"
325.	Mast and Main,	pole.
326.	Mast and Bowman,	arm.
327.	Mast and Riddle,	pole.
328.	Mast and New Mast road,	arm.
329.	Mast and Forrest,	"
330.	McGregor and Main,	"
331.	McGregor bridge, west,	pole.
332.	McGregor bridge, east,	"
333.	McDuffie and Huntress,	arm.
334.	Meade and Hall,	"
335.	Mechanic and Canal,	"
336.	Mechanic and Hampshire lane,	"
337.	Merrimack and Canal,	"
338.	Merrimack and Franklin back street,	"
339.	Merrimack and Franklin,	"
340.	Merrimack and Elm,	"
341.	Merrimack and Chestnut,	"
342.	Merrimack and Pine,	"
343.	Merrimack and Union,	"
344.	Merrimack and Beech,	"
345.	Merrimack and Maple,	"
346.	Merrimack and Lincoln,	"
347.	Merrimack and Wilson,	"
348.	Merrimack and Hall,	"
349.	Merrimack and Belmont,	"
350.	Merrimack and Beacon,	"
351.	Merrimack street, opposite No. 532,	"
352.	Merrimack common, west,	pole.
353.	Merrimack common, east,	"
354.	Merrimack south back and Union,	arm.
355.	Middle and Canal,	"
356.	Middle and Franklin west back,	"
357.	Milford and Carroll,	"

No. 358.	Milford and Riddle,	arm.
359.	Milford and Main,	"
360.	Mitchell and Beech,	"
361.	Monmouth and McGregor back street,	pole.
362.	Munroe and River road,	arm.
363.	Myrtle and Elm, east back,	"
364.	Myrtle and Chestnut,	"
365.	Myrtle and Pine,	"
366.	Myrtle and Union,	"
367.	Myrtle and Walnut,	"
368.	Myrtle and Beech,	"
369.	Myrtle and Maple,	"
370.	Myrtle and Russell,	"
371.	Myrtle street, opposite No. 350,	"
372.	Nelson and Mammoth road,	"
373.	New Mast road and D,	"
374.	New Mast road and Wilkins,	pole.
375.	North and River road,	arm.
376.	North and Elm,	"
377.	North and Bay,	"
378.	North and Chestnut,	"
379.	North and Pine,	pole.
380.	North and Union,	arm.
381.	North and Walnut,	"
382.	North and Beech,	"
383.	North Main street in Eddy,	pole.
384.	North Adams street, opposite No. 63,	arm.
385.	Nutfield lane, rear Central Fire Station,	"
386.	Nutt road and Beech,	"
387.	Nutt road and Portsmouth railroad,	pole.
388.	Nutt road and Willow,	arm.
389.	Orange and Elm,	"
390.	Orange and Pine,	"
391.	Orange and Union,	"
392.	Orange and Ash,	"
393.	Orange and Maple,	"
394.	Orange and Oak,	"
395.	Orange and Russell,	"
396.	Orange and Linden,	"
397.	Orange and Hall,	"
398.	Page and Portsmouth railroad,	"
399.	Park common,	pole.
400.	Parker and West,	arm.
401.	Pearl and Nutfield lane,	"
402.	Pearl and Chestnut,	"
403.	Pearl and Pine,	"

No. 404.	Pearl and Union,	arm.
405.	Pearl and Beech,	"
406.	Pearl and Oak,	"
407.	Pearl and Russell,	"
408.	Pearl and Linden,	"
409.	Pearl and Morrison,	pole.
410.	Pearl and Belmont,	arm.
411.	Pennacook and Canal,	pole.
412.	Pennacook and Elm,	arm.
413.	Pennacook and Chestnut,	pole.
414.	Pennacook and Pine,	arm.
415.	Pennacook and Union,	"
416.	Pleasant and Franklin,	"
417.	Pleasant and Elm,	"
418.	Prescott and Wilson,	"
419.	Prince and Boynton,	"
420.	Prince and B,	"
421.	Prospect and Elm east back,	"
422.	Prospect and Chestnut,	"
423.	Prospect and Pine,	"
424.	Prospect and Union,	"
425.	Prospect and Beech,	"
426.	Prospect and Ash,	"
427.	Prospect and Oak,	"
428.	Prospect and Linden,	"
429.	Prospect and Hall,	"
430.	Putnam and Bartlett,	pole.
431.	Putnam and Cartier,	arm.
432.	Putnam and Main,	"
433.	Rowell and River road,	"
434.	Rimmon street, opposite No. 322,	pole.
435.	River road and Otis,	arm.
436.	River road and Stark park,	"
437.	Rockland avenue and Wilkins,	"
438.	Rockland avenue and Goffstown line,	pole.
439.	Sagamore and Elm,	arm.
440.	Sagamore and Pine,	"
441.	Sagamore and Walnut,	"
442.	Sagamore and Maple,	"
443.	Sagamore and Russell,	"
444.	Salmon and Canal,	"
445.	Salmon and Elm,	"
446.	Salmon and Bay,	"
447.	Salmon and Chestnut,	pole.
448.	Salmon and Pine,	"
449.	Salmon and Union,	"

No. 450.	Salmon and Beech,	arm.
451.	School and Third,	"
452.	School and Turner,	"
453.	Schiller and Second,	"
454.	Schuyler and Main,	pole.
455.	Shasta and Elm,	arm.
456.	Silver and Union,	"
457.	Silver and Beech,	"
458.	Silver and Lincoln,	"
459.	Silver and Wilson,	"
460.	Silver and Belmont,	"
461.	Somerville and Hall,	"
462.	Somerville and Taylor,	"
463.	Somerville and Cypress,	"
464.	Somerville and Jewett,	"
465.	South Main street, opposite No. 520,	"
466.	Spruce and Elm,	"
467.	Spruce south back, and Manhattan lane,	pole.
468.	Spring and Canal,	arm.
469.	Spring and Hampshire lane,	"
470.	Stark and Canal,	"
471.	Stark street, opposite No. 22,	"
472.	State, east back and private way,	"
473.	State, north Granite,	"
474.	State, south Granite,	"
475.	Sullivan and Thornton,	"
476.	Sullivan and Beauport,	pole.
477.	Sullivan and Main,	"
478.	Summer and State,	arm
479.	Summer and Pine,	"
480.	Summer and Union,	"
481.	Summer and Hall,	"
482.	Summer and Dearborn,	"
483.	Summer and Belmont,	"
484.	Thayer and Elm,	"
485.	Titus avenue and Beech,	"
486.	Tremont common,	pole.
487.	Trenton and Union,	arm.
488.	Valley and Elm,	"
489.	Valley and Pine,	pole.
490.	Valley and Union,	arm.
491.	Valley and Wilson,	"
492.	Valley and Belmont,	"
493.	Valley and Taylor,	"
494.	Valley and Cypress,	"
495.	Valley and Jewett,	"

No. 496.	Vinton and Taylor,	arm.
497.	Walker and Main,	"
498.	Walker and Fourth,	"
499.	Walker and Third,	"
500.	Walker and Second,	"
501.	Walker and Turner,	pole.
502.	Washington and Church,	arm.
503.	Water street, opposite No. 22,	"
504.	Water and Elm,	"
505.	Wayne and Dubuque,	pole.
506.	Wayne and Beauport,	"
507.	Wayne and Main,	arm.
508.	Wayne and McGregor,	pole.
509.	Webster and River road,	"
510.	Webster and Elm,	arm.
511.	Webster and Chestnut,	"
512.	Webster and Pine,	"
513.	Webster and Walnut,	pole.
514.	Webster and Beech,	arm.
515.	Welch avenue and Calef road,	pole.
516.	West Hancock and South Main,	arm.
517.	West Hancock and Dartmouth,	"
518.	West Hancock and Second,	pole.
519.	West Hancock and Wentworth,	arm.
520.	Whitford and Union,	"
521.	Wilton and Main,	"
522.	Winter and Parker,	"
523.	Winter street, opposite No. 62,	"
524.	Winter place and Elm west back,	"
525.	Young and Taylor,	"
526.	Young and Ainsworth avenue,	"
527.	Young and Mammoth road,	"
528.	Lake avenue and Kenney,	"
529.	Appleton and Chestnut,	"
530.	Sagamore and Beech,	"
531.	Cartier, 50 feet south of Wayne,	"
532.	Opposite 893 Hanover,	"
533.	Amherst and Milton,	"
534.	Pearl and Walnut,	"
535.	Sagamore and Smyth road,	"
536.	Valley and Hall,	"
537.	East High and Beacon,	"
538.	Concord and Weston,	"
539.	South Main and Erie,	"
540.	Mammoth road near Isolation hospital,	"
541.	Valley and Beech,	"



No. 542.	Bridge and Arkwright,	arm.
543.	Ray, between Clarke and Appleton,	"
544.	Amoskeag and First,	"
545.	Green and Wilson,	"
546.	Pearl and Ash,	"
547.	Trenton and Elm,	"
548.	Blucher and Montgomery,	"
549.	Byron and Josselyn,	"
550.	Front street and Stearns lane,	"
551.	Lincoln and Portsmouth railroad,	"
552.	Spruce & Canton,	"
553.	Central & Milton,	"
554.	Brown avenue and Westland avenue,	"
555.	Old Bridge and Mammoth road,	"
556.	Adams street and Notre Dame avenue,	"
557.	Granite south back, near Canal,	"
558.	Titus avenue, Highland school,	pole.
559.	Mystic avenue and Union street,	"
560.	Pine and Silver,	arm.
561.	Cypress and East Spruce,	"
562.	Kelley and Hevey,	"
563.	J. Hall road and Portsmouth railroad,	"
564.	Pleasant and Franklin west back,	"
565.	Elm west back, between Kidder and Hollis,	"
566.	Milford and Donald,	"
567.	Taylor and Dix,	"
568.	Candia road and Woodbine avenue,	"
569.	Harvard and Wilson,	"
570.	Brooklyn avenue, between Jewett and Cypress,	pole.
571.	Wayne and Thornton,	arm.
572.	Coolidge avenue and North Bremer street,	"
573.	East Spruce and Kenney,	"
574.	Park avenue and Crown street,	"
575.	Goffstown road and Taggart street,	"
576.	South Beech near Gold street,	"
577.	Prospect and Russell,	"
578.	Myrtle and Linden,	"
579.	Cilley road and Taylor street,	"
580.	Auburn and Hall,	"
581.	Amherst and Hubbard,	"
582.	Putnam west of Rimmon,	pole.
583.	Lake avenue and Mammoth road,	arm.
584.	Salmon and Walnut,	"
585.	Middle and Franklin,	"
586.	Myrtle and Belmont,	"
587.	Opposite No. 85 Orange,	"

No. 588.	Hayward and Union,	arm.
589.	Massabesic and Jewett,	"
590.	Harvard and Hall,	"
591.	East High and Belmont,	"
592.	Sagamore and Oak,	"
593.	Amherst and Alfred,	"
594.	Willow road and Maple street,	"
595.	Dunbarton road, at No. 158,	"
596.	Jewett street and Cilley road,	"
597.	Arah street, at lot No. 38,	"
598.	Smith road and Webster street,	"
599.	Front street, north Eddy,	"
600.	Brock and Mast,	"
601.	Nicholet lane (W. Manchester),	"
602.	Amory and Cartier,	"
603.	Conant and Cartier,	"
604.	Central and Canal,	pole.
605.	Maple and Hayward,	arm.
606.	South Elm street, opp. Catholic church,	"
607.	Union street, opp. No. 1038,	"

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### Tungsten Lamps.

- 1 Spruce south back street and Barry avenue. (40 Watt.)
- 2 Spruce north back street and Barry avenue. (40 Watt.)
- 3 Merrimack street, 200 feet north of Union. (40 Watt.)

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### Gas Lamps.

- 1 Merrill and Willow.
- 1 Brown avenue and Shasta street.
- 1 Brown avenue and Byron street.
- 1 Hancock and Hamilton.
- 1 Hancock, near Brewery.
- 1 State street, at Manchester Mills.
- 1 Franklin and Auburn. (Bracket.)
- 1 Turner, south of Walker.
- 1 Milford and Bowman.
- 1 A and B.
- 1 Boynton and C.
- 1 Milford and Williams.
- 1 George street, west side.
- 1 East street, near Riddle.
- 1 Granite and Dover.

- 1 Granite and Quincy.
- 1 Douglas and Quincy.
- 1 Douglas and Dover.
- 1 Douglas and back street.
- 1 Douglas and Turner.
- 1 Pleasant, near Franklin street.
- 1 Pleasant, near Canal.
- 1 Mechanic, between Elm and Canal.
- 1 Walnut, between Bridge and Lowell.
- 1 Bridge and Buzzell.
- 1 Somerville, between Maple and Lincoln.
- 1 Bridge, between Chestnut and Elm.
- 1 Appleton street, near Elm.
- 1 Monroe, between Elm and Canal.
- 1 Clark and Chestnut.
- 1 Blodget and Chestnut.
- 1 Blodget, near Elm.
- 1 Orange and Chestnut.
- 1 Orange, between Chestnut and Elm.
- 1 Orange and Walnut.
- 1 Orange and Beech.
- 1 Pearl and Maple.
- 1 Arlington, near Maple.
- 1 East High and Maple.
- 1 Lowell and South.
- 1 Belmont and East High.
- 1 Beacon and Lowell.
- 1 Beacon and Concord.
- 1 Belmont and Concord.
- 1 Belmont and Amherst.
- 1 Belmont and Manchester.
- 1 Belmont and Central.
- 1 Ainsworth avenue and Hayward.
- 1 Jewett and Young's road.
- 1 Jewett, near Young's road.
- 1 Nutfield and Derryfield lanes. (Bracket.)
- 1 Nutfield and Londonderry. (Bracket.)
- 1 Nutfield and Monadnock. (Bracket.)
- 1 Hanover, above Beech.
- 2 Chestnut, above Clarke.
- 1 Salmon, west of Elm.
- 1 Massabesic and Taylor.
- 1 Amherst and Beacon.
- 1 Hanover, above Lincoln.
- 1 Beech street, below Bridge.
- 1 Bay, between North and Webster.

- 1 Parker street.
- 1 Hollis street.
- 1 Belmont and Hayward.
- 1 Ash street, below Bridge.
- 1 Waldo and Everett.
- 1 Carroll street.
- 1 Walnut and Prospect.
- 1 Prout avenue, opposite No. 99.
- 1 South Main street, below Milford.
- 1 Elm street, rear of J. E. Dodge's.
- 1 Kidder court.
- 1 Chestnut, above North.
- 1 River road and Thayer street.
- 1 Harrison and Alfred.
- 1 Jones and Nelson.
- 1 Jones and Benton.
- 1 Taylor and Grove.
- 1 Chester street.
- 1 Valley street, front No. 868.
- 1 Spring street, west of Elm.
- 1 Private way, between Granite and Clinton.
- 1 Somerville and Wilson.
- 1 Bay street, near Carpenter.
- 1 Manchester street.
- 1 Morrison and Arlington.
- 1 Union and Webster.
- 1 Liberty and Webster.
- 1 Appleton and Ray.
- 1 Bowman and Marlboro.
- 1 Wilson, corner of Clay.
- 1 Somerville and Springview.
- 1 Dartmouth and Frederick.
- 1 Cleveland and Hiram.
- 1 Valley and Willow.
- 1 Hayes and Chase avenue.
- 1 Ashland and Hall.
- 1 Ashland and Pearl.
- 1 Merrimack, between Lincoln and Maple.
- 1 Stark street.
- 1 Appleton street.
- 1 Canal street.
- 1 Merrimack street.
- 1 Laurel street.
- 1 Hemlock street.
- 1 Williams street.
- 1 Merrimack, between Wilson and Lincoln.

- 1 Manchester, between Beech and Maple.
- 1 Market, between Elm and Canal.

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### Locations at Goffe's Falls.

- 1 At Harvey's.
- 1 At Marshall's.
- 1 Corner Merrill and Nutt road.
- 1 Corner Derry and Harvey road.
- 1 Corner Harvey and Mill road.
- 1 Corner Harvey and South road.
- 1 At Dickey's.
- 1 Derry hill.
- 1 Foot of Derry hill.
- 1 At Melrose's.
- 1 At Fox's.
- 1 Mill gate.
- 1 Nettle's corner.
- 1 King's, on Mill street.
- 1 Caldwell's, on Mill street.
- 1 Nettle's house, Brown avenue.
- 1 Lurvey's, Brown avenue.
- 1 Kimball's, Brown avenue.
- 1 Walker's, Brown avenue.
- 1 Cemetery, Brown avenue.
- 1 Park, Brown avenue.
- 1 Kellaheer's, Brown avenue.
- 2 Depot street.
- 6 Calef road.
- 1 Calef and Brown.
- 1 Western and Willow.
- 1 Brown avenue.
- 1 Willow street.

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### Naphtha Lamps.

- 2 Calef road.
- 1 Calef road, at Miss Burns'.
- 1 Calef road and Mitchell street.
- 1 Calef road and Titus street.
- 1 Calef road and Pine Grove cemetery.
- 1 Valley and Maple.
- 1 Valley and Lincoln.

- 1 Hayward and Lincoln.
- 1 Candia road and Orchard.
- 1 Candia road and Cody.
- 1 Candia road, No. 487.
- 1 Candia road and Page street.
- 1 Candia road, No. 625.
- 1 Candia road, near yellow barn.
- 1 Candia road, No. 914.
- 1 Candia road, No. 927.
- 1 Candia road, No. 1035.
- 1 Candia and Proctor roads.
- 1 Candia and Lake Shore roads.
- 1 Candia road, near Lake pavilion.
- 1 Candia and Hanover street.
- 1 Candia road, at McDonald's.
- 4 Candia road.
- 1 Lake Shore and Proctor roads.
- 1 Lake Shore road, at Proctor's.
- 1 Lake Shore road, at Page's.
- 1 Lake Shore road, at pumping-station.
- 2 Lake Shore road.
- 1 Lake Shore.
- 1 Lake Shore, at R. R. crossing.
- 1 Broadway.
- 1 Hanover street, No. 1264.
- 1 Hanover and Proctor road.
- 1 Hanover street.
- 1 Hanover street, No. 928.
- 1 Hanover and J. Hall road.
- 1 J. Hall road.
- 1 Mammoth and Cilley road.
- 1 Mammoth and Island Pond road.
- 1 Mammoth and Cohas avenue.
- 1 Young street, near Taylor.
- 1 Taylor street.
- 1 Shasta and Maple.
- 1 Broadway and Hanover.
- 3 Londonderry turnpike.
- 1 Harvard street.
- 2 Oakland avenue.
- 1 Oakland and Mammoth.
- 1 Longwood and Revere avenue.
- 1 Lovering and Glenwood.
- 1 Candia road and Sherburne.
- 3 Mammoth road.
- 1 Woodland and Candia.



- 1 Mammoth and Cross.
- 1 Knowlton and Hayward.
- 1 Mammoth and Derry.
- 2 Derry road.
- 1 Conant and Corning.
- 1 Proctor road.
- 1 Trenton and Adams streets.
- 2 Londonderry turnpike.
- 1 Cohas avenue.
- 1 Broadway and Sherman street.



REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

## BOARD OF WATER COMMISSIONERS, 1908.

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EUGENE E. REED, *Mayor, ex officio.*

CHARLES H. MANNING, *President*, term expires January, 1913.

PERRY H. DOW, term expires January, 1915.

EDGAR J. KNOWLTON, term expires January, 1910.

CHARLES M. FLOYD, term expires January, 1914.

WILLIAM COREY, term expires January, 1911.

ROBERT E. MCKEAN, term expires January, 1912.

ARTHUR E. STEARNS, *Clerk.*

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## OFFICERS.

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CHARLES H. MANNING, *President.*

CHARLES K. WALKER, *Superintendent.*

ARTHUR E. STEARNS, *Registrar.*

JEROME J. LOVERING, *Engineer at Low Service Pumping Station.*

CHARLES A. WHITNEY, *Engineer at High Service Pumping Station*

# REPORT OF THE BOARD OF WATER COMMISSIONERS.

*To the Honorable City Councils of the City of Manchester, N. H.:*

GENTLEMEN:—The Manchester Water Commissioners herewith present their thirty-seventh annual report for the year ending December 31, 1908, with the detailed report of the superintendent during the period.

## FINANCIAL CONDITION.

Receipts and expenditures for the year have been as follows:

Received from water rents, etc.....	\$126,636.52	
Received from hydrant rentals.....	20,925.00	
		<hr/>
Total receipts, 1908.....		\$147,561.52
Amount paid for current expenses .....	\$34,558.15	
Amount paid for construction expenses ....	29,512.10	
Amount paid for interest on water bonds...	29,737.50	
Hydrant rentals set aside for sinking fund..	20,925.00	
Set aside for sinking fund for payment of water bonds, state law, 1897 bonds.....	5,000.00	
		<hr/>
		119,732.75
		<hr/>
Receipts over expenditures .....		\$27,828.77
Amount on hand December 31, 1907 .....		13,992.61
		<hr/>
Amount on hand December 31, 1908 .....		\$41,821.38

Respectfully submitted,

EUGENE E. REED, *ex officio*,  
 CHARLES H. MANNING, *President*,  
 CHARLES M. FLOYD,  
 EDGAR J. KNOWLTON,  
 WILLIAM COREY,  
 PERRY H. DOW,  
 ROBERT E. MCKEAN,  
*Water Board.*

## REPORT OF DESMOND FITZGERALD, C. E.

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BROOKLINE, MASS., November 30, 1908.

CAPTAIN CHARLES H. MANNING,  
Chairman Board of Water Commissioners,  
Manchester, N. H.

DEAR SIR:—On October 10 I received a request from your board to examine carefully into the advisability of removing the source of Manchester's water supply from the "Back pond" to the "Front pond" of the Lake Massabesic system in accordance with the plan suggested in the following communication and to report thereon.

### RESOLUTION

Relating to opening up that part of Lake Massabesic known as the "Back pond" to the use of the inhabitants of the city of Manchester.

CITY OF MANCHESTER, 1908.

RESOLVED, By the Mayor and Aldermen of the city of Manchester, in the city council assembled, as follows:

WHEREAS, That part of Lake Massabesic known as the "Back pond" contains hundreds of acres of bog land and is a drain for that section of the city of Manchester known as the "Eaton Heights"; and

WHEREAS, The water of said pond is unfit for a water supply and could be turned into a summer paradise for the benefit and comfort of those citizens who are not financially able to go to the beaches and mountains; therefore be it

*Resolved*, That a special committee of three be appointed to confer with Board of Water Commissioners for the purpose of devising means whereby the city's pumping station at Lake Massabesic can be removed from the "Back pond" to the "Front pond" and the "Back pond" opened to the use of the inhabitants of said Manchester; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

September 1, 1908. In Board of Mayor and Aldermen. Passed to be enrolled.

EUGENE E. REED, *Mayor*.

A true copy. Attest:

EDWARD C. SMITH, *City Clerk*.



Early in November I visited Manchester and made a preliminary examination of the present method of supply. At that time I inspected documents and plans on file in the Water Board office and then drove around the margins of both Back and Front ponds. I walked as far as possible close to the edge of the water in order to form an accurate idea of the nature of the shores, the surrounding water-sheds, the streams entering the ponds and the houses which might by their proximity to the water threaten the purity of the supply. The positions of the high and low pumping stations were noted and their interiors inspected. The general plan followed in drawing and controlling the water was explained to me together with the records of high and low water and the fluctuations of level in the ponds themselves in different seasons of the year and under the conditions of flood and drought.

On the second day of my examinations I collected samples of the water at important points and made approximate studies of the color, odor, and appearance of the samples. Some of these samples I retained and immediately on returning to Boston made careful color determinations. At the same time biological analyses were made under my directions and hot water tests. Subsequently chemical analyses of two samples were made for me in Boston to check my own examinations and the analyses on file in your office, a copy of which was furnished me.

It soon became apparent from this preliminary work that there was some misconception of the true state of facts on the part of the framers of the Resolution and further that there were so many important questions involved that it was impossible to give an immediate answer to your request.

At my suggestion a careful reconnoissance was made of the water-sheds of both Back and Front ponds to determine the areas, and I was also furnished with the July pumping records together with the population of the city from 1870 to 1908. On November 24 I also made a trip around the ponds by boat to judge more accurately of their condition.

With this additional data I have been enabled to draw the following conclusions.

By far the greater portion of the water supply to the Massabesic lake enters Front pond through the village of Auburn. The color of this water at the time of my examination is represented by the figures 0.76 on the scale adopted by the Metropolitan Water Works of Massachusetts. At the same time the color of the water at Deer Neck connecting the two ponds is represented by the figures 0.47, showing a reduction of 38 per cent in its passage through Front pond. At the same time the color of the water at the outlet of Back pond at the low service pumping station is represented by the figures 0.27 showing a further reduction of 43 per cent in the passage through Back pond.

As the color of New England waters is largely representative of the organic matter which they contain we have here an excellent measure of the beneficial effects of storage in improving the quality of the water in its passage through the two ponds due to its exposure to the sun and air. It is well known to all water supply experts that the longer surface water is stored under these conditions the better it becomes. The low service pumping station is situated in the best possible position for securing the advantages that arise from the effects of storage, and an important factor in the good quality of the Manchester water arises from the long delay in both ponds in the passage of the water from its influent at Auburn to the outlet of Back pond. A study of the chemical analyses confirms this view. The reduction in free ammonia in the passage from the centre of Front pond to the centre of Back pond is something over 30 per cent and of the albuminoid ammonia 13 per cent.

I am strongly of the opinion therefore that it would be extremely unwise for Manchester to remove its intake to Front pond and give up the great protection which it now has in the purity of its supply due to the important influence of Back pond. This is a consideration which affects the health of all of its citizens to say nothing of the prosperity which all share in a community where it is well known that the purity of the supply is beyond question, and I have placed it first in this investigation.

The statement that Back pond contains hundreds of acres of bog land, that it is a drain for that section of Manchester known as "Eaton Heights," and that the water is unfit for a water supply I find is not in accordance with the facts. The amount of bog land is comparatively small. Back pond water-shed is remarkably free from swamp land for so large an expanse of water. This is shown both from a careful inspection of the pond and from the low color of the water. In fact Back pond contains the best water for a water supply.

As far as the dangers from drainage are concerned there seems to be little choice between the two ponds. Fortunately the Eaton Heights water-shed is a small one, and with careful inspection and a continuance of the excellent policy pursued by the Board of Water Commissioners for many years of buying land and removing houses where they threaten the purity of the water, I have no doubt that a good sanitary condition can be maintained at comparatively small expense.

There are few cities which are so fortunately situated as Manchester in regard to water supply. There is no question as to the quantity of water in the supply even when the city shall have grown to many times its present size. Massabesic lake lies almost at its door, and the large capacity of the lake is the key to its value. To diminish this one half by the removal of the intake to Front pond would be to throw away one of the most valuable assets in the possession of the city to say nothing of the enormous cost of carrying out such a plan.

It is probable, judging from the steady and almost uniform increase in population from 23,536 in 1870 to more than 70,000 in 1908, that in a very few years the increase in the yearly consumption of water will rise from 1,250,000,000 gallons to more than 3,000,000,000 gallons, and it is not unreasonable to look forward to the time when 6,000,000,000 gallons yearly will be required to supply the needs of the people. When this time arrives the value of Back pond as an important factor in the system will be much increased. An excessive lowering of the surface of the ponds in time of drought should be avoided as far as possible. It is probable that before very long it will be desirable to curtail somewhat the use of water as power for the pumping of water at the low service station, and in a few years to limit this use to periods when there is an excess or overflow at the outlet and thus to reduce the lowering of the lake during the dry seasons. With the pumping stations in their present locations Manchester is in the strong position of having full control of the whole supply. When there is an excess due to wet years the surplus can be used as power and in dry seasons the level of the lake may be maintained as high as possible by the use of steam.

With a removal to Front pond this will all be changed and the level of Front pond will be reduced more than twice as much as with the supply in its present condition. The reasons for this are apparent. It will be necessary in the case of removal to construct a dam separating the two ponds to prevent the water from Back pond passing back to the intake. The use of Back pond as a general place of public resort is incompatible with its use as a source of water supply. With this pond cut off Front pond will lower rapidly in times of excessive droughts and to an increasing degree as population increases so that a large part of the benefits of long storage will be lost and the quality of the water will suffer.

In view of the foregoing I earnestly recommend that no change be made in the present method of taking water from Back pond for the water supply of Manchester and that the policy heretofore pursued of purchasing land on the water-shed for the protection of the purity of the water be continued.

Respectfully submitted,

DESMOND FITZGERALD,  
*Consulting Engineer.*

## SUPERINTENDENT'S REPORT.

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*To the Water Commissioners of Manchester:*

The report of the superintendent is herewith submitted.

The lake is now very low and has been for two months. Today we are supplying the city mostly with water from the steam pump at the high service station.

It has been a dry season here and in New England the rainfall has been below the average in all the cities.

There has not been much land bought around the lake. The Stratton property at Kimball's point was bought, and the J. S. Duggan place was decided in favor of the city by the court. Loon island was bought by the Water Board, and the nuisance has been abated.

The rubbing of the bank at the highway in Auburn village has been attended to and the expense at this point was \$700. Besides this the brook was cleaned up and thirteen hundred loads of sawdust removed from the brook and lake, the low water making it possible to do it.

This expense was about \$700, making the whole work here in Auburn village cost about \$1,400.

The Mountain Grove house was sold at auction for \$825.

The report of Desmond Fitzgerald has been before you. I have no remarks to make, only it was very gratifying to know that the commissioners have not gone wrong for the thirty-four years that I have been connected with this department.

At the high service station, the last of March, a crack was discovered in the valve chamber of the Snow pump. It was taken out and a new one cast and put in its place. It took about three weeks to do the job.

It seems to me that it would be good policy to put in a new horizontal pump, where the Worthingtons are of five millions capacity, with a big boiler so as to make it safe when we depend upon steam.

I am satisfied that these two Worthington pumps are sort of a failure, and should be replaced with one good one.

At the old station we have been short of water. The pumps have worked well, but as we have had to depend upon water power we have not had such success as when we have a full pond.

There has been quite a lot of buildings repainted, and the premises look better.

The woodshed has been moved nearer the boiler-house and a cellar built under it, which makes it better for the poultry and handier to get at the wood.

The dam at the head of the canal has shown fewer leaks than ever before since the dam was built.

The dam at the outlet remains intact and was a good job when built four years ago.

The lower reservoir is in good condition, but a new fence will have to be built next year.

The past season no work was done on the fence or the grounds about.

The high service reservoir is in good shape.

The gatehouse has been painted and the glass put in where the boys shot them out with rifle balls.

We have had quite a little trouble with both force mains. They have leaked quite a little. One is cement lined, and the other is cast iron, and one has troubled us about as much as the other.

Distribution pipes have been laid on twenty-one different streets, at a cost of \$22,854.77. The length all told was two and thirty-nine hundredths (2.39) miles. Quite a little ledge was encountered which added to the expense. The leaks have been about the same as usual.

The open shed at the pipe yard was burned last August, together with a pipe derrick and some wood.

The damage was about \$200, and the fire was set by boys who were smoking and playing cards in this shed where it was very dry.

We have put in ninety-three new service pipes, and have laid over one hundred and fifty-six (156), electricity spoiling two.



## PUMPING RECORD, LOW SERVICE STATION, 1908.

MONTHS.	Time, Davidson	Time, Wood.	No. of strokes, Davidson.	No. of strokes, Wood.	Average strokes per minute, Davidson.	Average strokes per minute, Wood.	No. of gallons pumped by Davidson.	No. of gallons pumped by Wood.	Total gallons pumped.	Daily average.
January .....	435 55	.....	514,068	.....	19.99	.....	79,658,640	.....	79,658,640	2,569,633
February .....	429 50	.....	514,936	.....	19.96	.....	78,270,272	.....	78,270,272	2,699,000
March .....	409 00	.....	794,172	.....	20.12	.....	75,114,144	.....	75,114,144	2,425,037
April .....	398 00	.....	465,332	.....	19.65	.....	76,557,698	.....	76,557,698	2,551,923
May .....	428 30	.....	491,069	.....	19.38	.....	70,735,764	.....	70,735,764	2,281,637
June .....	521 45	.....	633,623	.....	20.23	.....	96,210,706	.....	96,210,706	3,207,023
July .....	577 45	4 00	615,628	.....	20.05	19.77	104,674,176	626,472	105,300,648	3,396,795
August .....	508 10	.....	562,086	.....	18.47	.....	85,335,160	.....	85,335,160	2,752,747
September .....	521 30	.....	540,722	.....	17.31	.....	82,241,654	.....	82,241,654	2,741,388
October .....	434 40	2 30	426,974	.....	16.38	17.24	65,400,048	339,352	65,739,400	2,120,626
November .....	250 40	.....	234,576	.....	15.70	.....	35,655,552	.....	35,655,552	1,188,518
December .....	188 35	.....	167,549	.....	14.89	.....	24,994,028	.....	24,994,028	806,259
Totals .....	5,101 20	6 30	6,033,735	7,332	19.85	.....	874,842,542	965,824	875,808,666	2,392,919



## PUMPING RECORD, HIGH SERVICE SNOW ENGINE, 1908.

MONTHS.	TOTAL PUMPING TIME PER MONTH.		No. days pump- ing.	COAL IN POUNDS.				Average strokes per min.	Total number of strokes.	No. of gallons pumped.				Gallons pumped per pound of coal.	No. days pump'd into Low Ser- vice.	Hours.
	Hours.	Min.		Raising steam and banking.	Pump- ing.	Ashes and clinkers.	Total coal.									
January .....	86	45	18	26,756	32,264	5,145	59,020	31.5	164,081	19,525,639	605	.....	.....	.....	.....	.....
February .....	82	40	17	25,780	30,564	5,064	56,344	31.5	156,300	18,599,700	608	.....	.....	.....	.....	.....
March .....	84	25	17	24,420	30,430	4,715	54,850	30.9	152,659	18,166,421	597	.....	.....	.....	.....	.....
April .....	69	..	14	16,242	25,122	3,702	41,364	30.2	125,130	14,890,479	595	.....	.....	.....	.....	.....
May .....	87	20	18	17,682	32,252	4,492	49,934	31.5	165,335	19,874,865	610	.....	.....	.....	.....	.....
June .....	126	23	27	24,384	46,424	6,377	70,808	31.9	242,158	28,816,802	630	.....	.....	.....	.....	.....
July .....	124	55	27	25,052	45,812	6,377	70,864	32.2	241,533	28,743,497	628	.....	.....	.....	.....	.....
August .....	92	45	18	17,388	34,234	4,642	51,622	32.7	181,922	21,648,718	632	.....	.....	.....	.....	.....
September .....	114	45	20	19,332	42,370	5,552	61,702	32.6	224,432	26,707,408	630	.....	.....	.....	.....	.....
October .....	140	35	20	19,314	52,408	6,294	71,722	32.9	277,259	32,993,821	630	.....	.....	.....	.....	.....
November .....	229	05	28	23,813	88,000	9,194	113,722	34.3	471,163	56,008,635	630	.....	.....	.....	.....	.....
December .....	283	10	31	26,048	113,592	11,362	143,040	35.1	595,578	70,873,782	622	.....	.....	.....	.....	.....
	255	1 521	48	270,216	574,832	72,886	845,048	32.8	2,997,552	356,908,688	621	.....	.....	.....	.....	.....

377.2 tons of coal were used in pumping; 303.3 gallons of oil; 254 pounds of waste.

## PUMPING RECORD, HIGH SERVICE WORTHINGTON ENGINE, 1908.

MONTHS.	No. days pump- ing.	TOTAL PUMPING TIME PER MONTH.		Total number of strokes.	Average strokes per min.	COAL IN POUNDS.				No. of gallons pumped.	Gallons pump'd per pound of coal.
		Hours	Min.			Raising steam and banking.	Pump- ing.	Ashes and clinkers.	Total coal.		
April.....	3	22	55	58,374	42.5	2,768	7,452	913	10,220	1,070,190	432

4.6 tons of coal were used in pumping; 1.3 gallons of oil; 2 pounds of waste.

## RAINFALL AT HIGH SERVICE STATION, 1903.

DAY OF MONTH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.		*1.17			.51							
2.			*.95	*.07						.24		
3.					.09	.03	.42					
4.	*.07						.09	.12				
5.								1.67				
6.		*.54		*.18				1.17	.12			
7.			*.41					.18				*1.30
8.	1.07			*.19	1.20						.05	
9.				*.32	.12							
10.												
11.										.46	.19	*.30
12.	.56				.11							*.26
13.	.22	.18		*.07				.31				
14.					.51							
15.		.76	.07	.14							.46	
16.						.32						
17.			*.06				.09	.27			.08	
18.							.48	.11				*.44
19.		*.92		.66			.64				.10	
20.				.02			.04					
21.					.02							
22.					.12		1.38	.22				
23.					.55							
24.	*.03	*.04	.38			.10	.14					
25.							1.42					*.05
26.		*.18		.07				1.07			.12	
27.	.32	*.67			.62					.42		
28.				.07								
29.	*.06		.45			.21			1.27	.47		
30.										.61		*.41
31.					1.30							
	2.33	4.46	2.32	1.79	5.15	.66	4.70	5.12	1.39	2.20	1.00	2.76

Total rainfall 1903, 33.88 inches.

\* Snow.

1895. Total rainfall, 42.06 inches.  
 1896. Total rainfall, 38.41 inches.  
 1897. Total rainfall, 49.76 inches.  
 1898. Total rainfall, 47.15 inches.  
 1899. Total rainfall, 36.27 inches.  
 1900. Total rainfall, 47.89 inches.  
 1901. Total rainfall, 47.47 inches.  
 1902. Total rainfall, 47.58 inches.  
 1903. Total rainfall, 40.39 inches.  
 1904. Total rainfall, 34.54 inches.  
 1905. Total rainfall, 39.13 inches.  
 1906. Total rainfall, 41.85 inches.  
 1907. Total rainfall, 42.54 inches.  
 1908. Total rainfall, 33.88 inches.

## Income from the Sale of Water.

The income from the sale of water for 1908 has been as follows:

Received for water by rate .....	\$19,555.20	
for water by meter .....	104,431.90	
for water building purposes .....	340.26	
for fines .....	361.80	
		\$124,689.16
Received for pipe, etc. ....	\$62.10	
for pipe, etc., J. B. Smith.....	22.40	
for pipe, etc., F. P. Carpenter.....	13.80	
for 6-inch pipe, Derryfield Co.....	49.50	
for 6-inch pipe, etc., Bachelder- Worcester Co. ....	206.00	
for 6-inch pipe, etc., R. G. Sullivan,	77.25	
for 6-inch pipe, etc., Manchester		
St. R. R. ....	88.81	
for hydrant, etc., State Reform		
School .....	48.00	
		567.86
Received from J. T. Hayes, for Stratton Cot- tage .....	\$127.50	
from A. Grenier, for Mountain		
Grove Hotel .....	700.00	
from F. S. Lewis, for Mountain		
Grove ell .....	50.00	
from A. G. Waite, Mountain Grove		
pavilion .....	15.00	
from M. S. Blanchard, Mountain		
Grove icehouse .....	20.00	
from W. G. Brown, Mountain		
Grove tables, dishes, etc.....	40.00	
		952.50
Received from W. M. Moulton, rent.....	\$72.00	
from C. M. Nutting, rent.....	12.00	
from G. G. Griffin, lease.....	1.00	
from F. Brown, lease.....	1.00	
from Burke Bros., lease.....	300.00	
		386.00
Received from H. A. Boone, grass.....	\$10.00	
from H. A. Salls, grass.....	10.00	
from H. J. Crombie, grass.....	2.00	
from F. H. Gilbert, grass .....	3.00	
from Frank McIntyre, grass.....	3.00	
from Geo. Blackman, grass.....	10.00	
from S. H. Burbank, grass.....	3.00	
		41.00
		\$126,636.52
Hydrant rentals .....		20,925.00
		\$147,561.52

Amount paid for current expenses .....	\$34,558.15	
Amount paid for construction expenses ....	29,512.10	
Amount paid for interest on bonds.....	29,737.50	
Hydrant rentals set aside for sinking fund..	20,925.00	
State law (1897 bonds) set aside for sinking fund .....	5,000.00	
		<hr/> \$119,732.75
Receipts over expenditures.....		\$27,828.77
Amount on hand December 31, 1907.....		13,992.61
		<hr/>
Amount on hand December 31, 1908.....		\$41,821.38

## CLASSIFICATION OF ACCOUNTS, 1908.

Superintendence, repairs, etc. ....	\$19,575.52	
Stationery and printing.....	250.45	
Office and incidental expenses .....	2,367.53	
Pumping expenses (low service).....	3,353.69	
Pumping expenses (high service) .....	6,017.65	
Repairs to buildings .....	1,360.70	
Repairs to canal, reservoirs, etc.....	1,632.61	
		<hr/> \$34,558.15
Service pipes .....	\$1,806.42	
Distribution pipes .....	21,313.96	
Fire hydrants and valves.....	1,540.81	
Meters .....	1,925.91	
Land and water rights .....	2,925.00	
		<hr/> 29,512.10
		<hr/> \$64,070.25
Sinking fund for water bond, issue 1897.....	\$5,000.00	
Sinking fund for fire hydrants.....	20,925.00	
		<hr/> 25,925.00

*Total Construction Expenses.*

Land and water rights.....	\$395,633.43
Dam, canal, penstock, etc.....	101,399.16
Pumping machinery and buildings .....	246,508.69
Distribution reservoirs .....	117,697.90
Force and supply main .....	89,769.02
Distribution pipes .....	710,617.07
Fire hydrants and valves.....	69,371.14
Meters and fixtures .....	72,369.96
Service pipes .....	95,379.36
Grading and fencing .....	17,470.39
Tools and fixtures .....	10,649.35
Boarding and storehouses .....	919.36
Roads and culverts .....	4,405.20

Supplies .....	\$550.39	
Engineering .....	22,176.19	
Livery and traveling expenses .....	2,856.64	
Legal expenses .....	563.79	
		<hr/>
		\$1,958,337.04

*Total Current Expenses.*

Superintendence and repairs .....	\$511,688.49	
Stationery and printing .....	9,277.15	
Office and incidental expenses .....	45,093.63	
Pumping expenses (low service) .....	81,999.28	
Pumping expenses (high service) .....	70,912.01	
Repairs to buildings .....	11,137.79	
Repairs to dam, canal, reservoirs.....	16,776.10	
		<hr/>
		746,884.45
Interest .....	\$40,678.51	
Highway expenditures .....	14,000.53	
		<hr/>
		54,679.04
		<hr/>
		\$2,759,900.53
Interest, discount and labor performed on highway, transferred and tools and mate- rial sold .....	\$91,292.25	
Current expenditures to December 31, 1908..	746,884.45	
		<hr/>
		838,176.70
		<hr/>
Total cost exclusive of interest and current expenses,		\$1,921,723.83
Interest and discount to December 31, 1907..	\$1,243,339.51	
Interest for 1908 .....	29,737.50	
		<hr/>
		\$1,273,077.01

## AMOUNT OF WATER BONDS ISSUED TO DECEMBER 31, 1908.

Issued July 1, 1890, rate 4 per cent, due July 1, 1910....	\$100,000.00
January 1, 1892, rate 4 per cent, due January 1, 1912 .....	100,000.00
August 1, 1893, rate 5 per cent, due August 1, 1913 .....	100,000.00
November 1, 1893, rate 4½ per cent, due Novem- ber 1, 1913 .....	100,000.00
October 1, 1894, rate 4 per cent, due October 1, 1914 .....	50,000.00
July 1, 1895, rate 4 per cent, due July 1, 1915....	100,000.00
December 16, 1895, rate 4 per cent, due December 16, 1915 .....	50,000.00
January 1, 1897, rate 4 per cent, due January 1, 1917 .....	100,000.00
	<hr/>
	\$700,000.00



## SINKING FUND.

1893 .....	\$12,750.00
1894 .....	13,925.00
1895 .....	15,800.00
1896 .....	16,800.00
1897 .....	17,175.00
1898 .....	17,675.00
1898 .....	5,000.00
1899 .....	5,000.00
1899 .....	18,100.00
1900 .....	18,425.00
1900 .....	5,000.00
1901 .....	5,000.00
1901 .....	18,575.00
1902 .....	18,800.00
1902 .....	5,000.00
1903 .....	5,000.00
1903 .....	19,200.00
1904 .....	19,450.00
1904 .....	5,000.00
1905 .....	19,550.00
1905 .....	5,000.00
1906 .....	5,000.00
1906 .....	20,075.00
1907 .....	20,625.00
1907 .....	5,000.00
1908 .....	5,000.00
1908 .....	20,925.00
	<hr/>
Interest, etc., to December 31, 1907.....	\$342,850.00
Interest, etc., for 1908 .....	52,597.34
	<hr/>
	\$102,219.80
Paid for retiring bonds January 1, 1902.....	\$100,000.00
Paid for retiring bonds January 1, 1907.....	100,000.00
	<hr/>
	200,000.00
	<hr/>
	\$202,219.80

## STATEMENT OF RECEIPTS.

Year.	Total.	Hydrant rent.	Water by rate.	Water by meter.	Received for building purposes.	Fines.	Labor, pipe, and materials sold.	Rentals and buildings sold.	No. of meters.
1872	\$573.61								
1873	2,097.60		\$1,692.69	\$190.84		\$14.00	\$200.67		8
1874	32,154.07	\$22,425.00	7,987.27	1,436.56	\$119.10	104.18	699.85		98
1875	29,223.60	13,095.00	10,292.13	3,348.11	122.13	120.59	2,245.64		160
1876	39,028.47	16,320.00	15,900.63	6,305.81	72.32	180.16	249.55		166
1877	43,823.30	17,475.00	18,064.51	7,783.09	136.10	233.04	131.56		202
1878	48,874.26	17,970.00	20,255.97	10,090.25	83.60	232.82	241.62		226
1879	53,143.17	18,165.00	21,610.13	12,732.93	81.60	240.64	303.87		251
1880	57,655.25	18,300.00	23,795.96	14,704.34	79.50	210.39	465.06	\$10.00	280
1881	60,215.62	18,780.00	25,336.18	15,554.98	105.60	223.99	203.87		310
1882	67,630.13	20,130.00	26,803.06	19,898.69	146.65	197.49	443.24		371
1883	73,458.20	20,520.00	28,838.24	23,431.20	314.65	208.04	125.07		404
1884	75,580.08	21,350.00	31,724.07	21,329.75	195.10	231.96	738.20		446
1885	80,404.12	18,900.00	33,597.02	27,425.35	102.50	186.80	181.45		486
1886	75,129.99	19,750.00	33,062.11	21,573.45	287.40	130.80	320.23		613
1887	80,518.17	20,437.50	33,497.21	25,277.09	351.70	119.20	819.47		739
1888	85,643.82	21,000.00	33,864.78	29,838.82	543.80	149.80	243.62		842
1889	86,700.46	18,240.00	34,140.99	33,596.05	361.95	153.20	155.27		951
1890	90,463.37	19,880.00	32,431.10	37,009.80	649.90	151.80	298.77		1,135
1891	76,605.23	4,590.00	30,588.79	40,479.25	494.80	160.40	200.99		1,313
1892	83,474.79	5,000.00	31,344.24	46,139.35	416.00	168.40	139.80		1,608
1892	104,170.08	12,750.00	32,603.59	58,103.20	1,033.75	159.60	339.38		1,895
1894	110,210.29	13,925.00	32,176.23	62,501.35	697.80	227.40	334.82		2,182
1895	118,374.50	15,800.00	32,903.99	67,465.90	808.20	300.40	768.17		2,520
1896	128,907.05	16,800.00	32,540.03	77,610.10	638.48	302.80	440.12		2,865
1897	125,719.17	17,175.00	30,647.17	76,148.60	331.85	321.80	627.08		3,134
1898	131,184.08	17,675.00	29,409.58	80,643.30	187.00	359.80	441.90		3,340
1899	133,436.41	18,100.00	28,063.34	85,764.80	246.80	363.80	400.59		3,502
1900	138,241.94	18,425.00	27,868.85	91,079.30	95.80	397.80	232.59		3,667
1901	138,206.14	18,575.00	26,954.99	91,382.60	220.30	437.60	410.90		3,804
1902	134,331.48	18,800.00	23,785.49	90,479.10	233.34	434.00	358.25		3,983
1903	128,416.23	19,200.00	21,539.64	85,954.05	253.90	407.00	137.64		4,101
1904	133,057.47	19,450.00	20,486.64	88,639.41	161.28	369.20	808.12		4,220
1905	136,353.07	19,550.00	20,230.99	92,438.70	250.66	366.00	1,437.09		4,356
1906	139,820.76	20,075.00	20,154.51	94,345.90	277.86	354.40	368.88		4,525
1907	144,433.45	20,625.00	19,727.23	101,758.05	250.20	398.80	991.17		4,668
1908	147,561.52	20,925.00	19,555.20	104,431.90	340.26	361.80	567.86		4,777

1878, meter rate was changed. 1881, hydrant rates reduced. 1886, meter and other rates reduced. 1889, hydrant rates reduced. 1891 and 1892, received only part of hydrant rent, and nothing from water-troughs or street sprinklers. 1893, hydrant rent and water-closets rate reduced. July 1, 1902, rates reduced. Meter rate reduced October 1, 1904.

The following amounts have been paid over to the city treasurer, and credited to the water-works:

1872, supplies and materials sold.....	\$573.61
1873, supplies and materials sold.....	177.07
accrued interest on water-bonds sold.....	193.26
accrued interest on state bonds sold.....	146.00
water rents .....	1,920.53
1874, supplies and materials sold.....	607.89
March 12, highway expenditures transferred from water account .....	14,000.53
March 17, interest and discount transferred from water account .....	12,347.25

1874, September 1, interest and discount transferred from water account .....	\$22,361.74
water and hydrant rent.....	30,233.54
December 29, interest transferred.....	4,566.25
1875, water and hydrant rent.....	27,119.15
sundry items .....	2,104.45
1876, water and hydrant rent.....	38,879.47
sundry items .....	149.00
1877, water and hydrant rent.....	43,691.74
sundry items .....	131.56
1878, water and hydrant rent.....	48,632.64
sundry items .....	241.62
1879, water and hydrant rent.....	52,839.30
sundry items .....	303.87
1880, water and hydrant rent.....	57,180.19
sundry items .....	475.06
1881, water and hydrant rent.....	60,000.75
sundry items .....	214.87
1882, water and hydrant rent.....	67,175.89
sundry items .....	454.24
1882, water and hydrant rent.....	73,312.13
sundry items .....	146.07
1884, water and hydrant rent.....	74,830.88
sundry items .....	749.20
1885, water and hydrant rent.....	80,211.67
sundry items .....	192.45
1886, water and hydrant rent .....	74,803.76
sundry items .....	326.23
1887, water and hydrant rent.....	79,682.70
sundry items .....	835.47
1888, water and hydrant rent.....	85,397.20
sundry items .....	246.62
1889, water and hydrant rent.....	86,492.19
sundry items .....	208.27
1890, water and hydrant rent.....	90,122.60
sundry items .....	340.77
1891, water and hydrant rent.....	76,213.24
sundry items .....	291.99
1892, water and hydrant rent.....	83,067.99
sundry items .....	406.80
1893, water rents .....	90,900.14
sundry items .....	519.94
1894, water rents .....	95,602.83
sundry items .....	682.46
1895, water rents .....	101,478.49
sundry items .....	1,096.01

1896, water rents .....	\$111,091.41
sundry items .....	1,015.62
1897, water rents .....	107,449.42
sundry items .....	1,094.75
premiums on bonds .....	6,248.00
1898, water rents .....	110,599.68
sundry items .....	2,909.40
1899, water rents .....	114,438.74
sundry items .....	897.67
1900, water rents .....	119,441.75
sundry items .....	375.19
1901, water rents .....	118,995.49
sundry items .....	635.65
1902, water rents .....	114,931.93
sundry items .....	599.55
1903, water rents .....	108,154.59
sundry items .....	1,061.64
1904, water rents .....	109,656.53
sundry items .....	3,950.94
1905, water rents .....	113,386.35
sundry items .....	3,416.72
1906, water rents .....	115,132.67
sundry items .....	4,613.09
1907, water rents .....	122,134.28
sundry items .....	1,674.17
1908, water rents .....	124,689.16
sundry items .....	1,947.36
	<hr/>
	\$3,105,521.32

## SERVICE PIPES LAID, 1908.

86 1-inch diameter .....	2,370.2 feet
3 2-inch diameter .....	16.3 "
4 6-inch diameter .....	"
	<hr/>
93	2,386.5 feet

## SERVICE PIPES RELAID, 1908.

1 ½-inch diameter	17.0 feet to 1-inch diameter..	17.0 feet
110 ¾-inch diameter	2,534.6 feet to 1-inch diameter..	2,532.2 "
1 ¾-inch diameter	30.0 feet to 1½-inch diameter..	30.0 "
38 1-inch diameter	1,161.1 feet to 1-inch diameter..	1,070.6 "
1 0-inch diameter	1-inch diameter..	148.3 "
1 1-inch diameter	14.0 feet to 1½-inch diameter..	13.5 "
1 1-inch diameter	33.0 feet to 2-inch diameter..	41.0 "
1 1½-inch diameter	21.5 feet to 1-inch diameter..	20.0 "
2 1½-inch diameter	49.5 feet to 2-inch diameter..	49.8 "
	<hr/>	
156	3,860.7 feet	3,922.5 feet

## SERVICE PIPES LAID TO DATE.

12	½-inch diameter .....	257.4 feet
472	¾-inch diameter .....	12,147.7 "
5,734	1-inch diameter .....	145,292.5 "
18	1¼-inch diameter .....	781.9 "
39	1½-inch diameter .....	1,058.8 "
101	2-inch diameter .....	2,569.6 "
2	2½-inch diameter .....	63.0 "
7	3-inch diameter .....	142.8 "
17	4-inch diameter .....	340.2 "
27	6-inch diameter .....	

6,429

162,653.9 feet

or 30.81 miles of service pipes

## METERS.

The number of meters set during the year has been one hundred and sixteen (116).

Total number of meters in use is forty-seven hundred and seventy-seven (4,777).

Number applications for water, 1908, eighty-eight (88).

Total number of applications to date, sixty-five hundred and fifty-five (6,555).

## DISTRIBUTION PIPES LAID, GATES AND HYDRANTS SET, 1908

STREETS.	LENGTH IN FEET.			GATES.			Hydrants.	Location.
	4 in.	6 in.	8 in.	4 in.	6 in.	8 in.		
Beech.....			822			1		Southward past Gold st.
Belmont.....		718			3			Howe to Manning.
Chestnut.....		260			1			North of Carpenter.
Cilley.....		1,389			3		1	E. of Wilton to W. of Hall.
Dix.....		1,302			3		3	Maple to Wilson.
Gertrude.....		321			1		1	North of Hanover.
Hall.....		238			1		1	Cilley Road to Shasta.
Kelley.....		262					1	Westward to Lafayette.
Koehler.....		1,268			2		1	Railroad, north.
Lafayette.....		322			1			North of Kelley.
Lincoln.....	208			1				South of Amherst.
Mast.....			660			1		Westward to Pinard.
Merrimack.....		242						East of Beacon.
Mill avenue.....					1			At hydrant.
Pinard.....		445			1		1	North of Mast.
Railroad.....		1,606			2		1	Douglas to Koehler.
Revere.....		258			1			West of Wayland.
Salisbury.....		388			1		1	North of Hanover.
Shasta.....		174			1			West of Hall.
Wayland.....		202			1		1	Longwood to Revere.
Willow.....		18	1,431			1	2	Southward to T. Shea.
West Hancock.....		84						
	208	9,500	2,913	1	23	13	14	

Total, 12,621 feet or 2.39 miles of pipe laid; 27 gates; 14 hydrants.

## LOCATION OF HYDRANTS SET, 1908.

Cilley road, corner Taylor.  
Dix street, corner Wilson.  
Dix street, corner Lincoln.  
Dix street, corner Maple.  
Gertrude street, corner Amherst.  
Hall street, corner Cilley.  
Kelley street, corner Lafayette.  
Koehler street, opposite Hunter residence.  
Pinard street, corner Mast.  
Railroad street, corner Koehler.  
Salisbury street, corner Amherst.  
Wayland street, corner Revere.  
Willow street, opposite Driving Park gate.  
Willow street, opposite T. Shea residence.



## LIST OF GATES SET, 1908.

Beech street, line of north side of barn, near Gold street.  
Belmont street, north side Cilley road.  
Belmont street, north side Manning street.  
Belmont street, north side Howe.  
Chestnut street, north side Carpenter.  
Cilley road, east side Taylor.  
Cilley road, west side Taylor.  
Cilley road, west side Belmont.  
Dix street, west side Wilson.  
Dix street, east side Lincoln.  
Dix street, east side Maple.  
Gertrude street, north side Hanover.  
Hall street, north side Cilley road.  
Koehler street, south side Schneid residence.  
Koehler street, west side Hunter residence.  
Lafayette street, north side Kelley.  
Lincoln street, south side Amherst.  
Mast street, east side Theophile.  
Mill avenue, close to hydrant.  
Pinard street, north side of Mast.  
Railroad street, west side 365 Douglass residence.  
Railroad street, corner Koehler.  
Revere street, south side Longwood.  
Salisbury street, north side Hanover.  
Shasta street, west side Hall.  
Wayland street, west side Revere.  
Willow street, north side Bodwell road.

## SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1908.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.								Gates set.						Air valves.	Hydrants.
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.		
Pumping station.*			4256			153		43		3			2		2			2
Force main, C. I. J.	1226		133							2								
Force main, C. J.	6733	63	324					75		2					3			2
Supply main †	8049	126	361			28				1			1		1			3
Adams, north								1308							3			1
Agawam							227							1				
Appleton								1094							3			4
Amherst							1010	4394						2	8			13
Arlington								1765							3			4
Ash								1253	954						4	2		1
Ashland						2264							3					
Auburn							1010	4104						1	8			13
Baker								2624							5			5
Bay								2711							8			2
Beacon								1785							1			1
Bedford						73		792					1		3			3
Beech.					12194		7012	107				16		9	4	1		12
Belmont							1111	6839						2	13			8



## SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1908.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.						Air valves.	Hydrants.	
	20 in.		20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.			4 in.
	20 in.	6 in.																
Clarke....								1949								3	4	
Clay.....								1985								4	4	
Clough.....								258								1	.....	
Crown.....							344	4									1	
Cypress.....								2300								6	3	
Davis.....							175										.....	
Dean.....								764								2	3	
Dearborn.....								670								1	1	
Depot.....						835		29				1				2	2	
Derry.....									147								.....	
Derryfield Shoe Co.....								542								2	1	
Dix.....								2075								6	4	
Dutton.....									471								.....	
Elm.....				12642	4134			347				17	4		10		10	
East High.....								3263								5	7	
Elm avenue.....									384								.....	
Everett....									355							1	.....	
Foster avenue.....									308							1	.....	
Franklin.....								1130								4	1	

Garmon					347					1	1
Gertrude					324					1	1
Glenwood					1017					3	2
Gore					1910					5	4
Gold					512					1	1
Granite	619	290			832				2	2	4
Green					1377					3	4
Grove, M. corp					231						....
Grove, E. Man.					1735					5	4
Hall		1025			1962				1	5	3
Hall road					1711					2	3
Hancock					1201					2	3
Hanover		1410	1010		6291				3	11	17
Hanover road		4569			79				1	2	2
Harrison					4682					10	11
Harvard					2148					4	3
Hayes avenue					472					1	1
Hayward					6862					10	14
Hazel					434					1	....
High					858					3	....
Highland Park					1040					1	1
Hollis					756					3	3
Hosley					532					1	....
Hospital					192					1	1

## SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1908.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.								Gates set.						Air valves.	Hydrants.		
	20 in.		6 in.		20 in.		8 in.		6 in.		4 in.		20 in.							
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.				
Howe .....									1294								3		3	
Hubbard.....									376								1		1	
Jane .....										637							2		...	
Jewett .....								1701	623						2				3	
Jones .....									471							1			...	
Josselyn .....									539							1			1	
Kidder .....									750							3			3	
Kidder's court.....									57	185						3			1	
Knowlton.....									503							1			...	
Lake avenue .....	4354	45	104						4329			3				10		1	12	
Langdon .....									460							2		2	...	
Laurel.....									5748							10		13	...	
Liberty.....									637	238						1		1	1	
Lincoln .....										208							1		...	
Lingard .....									460								1		1	
Londonderry road.....								1295	22						1	2		2	...	
Longwood .....									933							1		1	...	
Lovering.....									364									...	...	
Lowell .....				7570				32	94							10	1	12	...	



[illegible]

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1908.—*Continued.*

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.						Air valves.	Hydrants.	
	20 in.		6 in.															
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.			4 in.
North river road.....	.....	.....	.....	.....	.....	.....	3462	1384	.....	.....	.....	.....	.....	.....	4	1	.....	7
Nutt Road.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
[Changed to Willow]	.....	.....	.....	.....	.....	.....	.....	850	.....	.....	.....	.....	.....	.....	3	.....	.....	1
Oakland .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Old Falls road.....	.....	.....	.....	.....	.....	.....	.....	562	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Old Falls avenue.....	.....	.....	.....	.....	.....	.....	.....	338	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Orange.....	.....	.....	.....	.....	.....	.....	930	4030	.....	.....	.....	.....	.....	.....	1	9	.....	13
Orchard avenue .....	.....	.....	.....	.....	.....	.....	.....	1005	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Page .....	.....	.....	.....	.....	.....	.....	.....	1653	.....	.....	.....	.....	.....	.....	2	.....	.....	4
Park avenue.....	.....	.....	.....	.....	.....	.....	.....	250	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Pennacook.....	.....	.....	.....	.....	.....	.....	.....	1570	.....	.....	.....	.....	.....	.....	2	.....	.....	4
Pearl.....	.....	.....	.....	.....	.....	.....	.....	1012	4076	.....	.....	.....	.....	.....	2	9	.....	14
Pennsylvania avenue .....	.....	.....	.....	.....	.....	.....	.....	29	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Pine.....	.....	.....	.....	.....	.....	.....	7516	2089	.....	.....	.....	.....	.....	.....	11	5	.....	6
Pleasant .....	.....	.....	.....	.....	.....	.....	.....	1076	.....	.....	.....	.....	.....	.....	3	.....	.....	4
Porter .....	.....	.....	.....	.....	.....	.....	.....	584	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Prescott .....	.....	.....	.....	.....	.....	.....	.....	318	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Proctor road.....	.....	.....	.....	.....	.....	1106	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Prospect.....	.....	.....	.....	.....	.....	.....	.....	4640	.....	.....	.....	.....	.....	.....	1	9	.....	13
Prout avenue .....	.....	.....	.....	.....	.....	.....	.....	300	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

Ray.....						854						2	2
Revere....						571						2	..
Riley.....						593						1	....
Rowell.....					303	17						1	....
Russell.....						750						2	....
Sagamore.....						3466						5	8
Salisbury.....						388						1	1
Salmon.....						275							1
Shasta.....						1879						5	4
Silver.....						3543						5	5
Sonerville.....				4200		1010			7			3	7
South.....						97	476					1	1
Spring.....						752						2	3
Spruce.....					650	6165					1	8	14
Stark.....						874						2	3
State.....						1029						4	3
Stevens.....						325						1	....
Summer.....						1702						5	4
Taylor.....						4755						7	4
Thayer.....						305						1	....
Titus.....					1403	76					2	1	3
Trenton.....					1192	18					2	..	2
Union.....					2333	6755	319				2	13	7
Valley.....	3641	1923	2096			246			1	2		7	11





## SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1908.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.						Gates set.						Air valves.	Hydrants.		
	20 in.		20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.			6 in.	4 in.
	20 in.	6 in.																
Cartier.....								3288							4	2		
Charleston avenue.....								790							2	1		
Clement.....								304							1	1		
Cleveland.....								1482							2	1		
Clinton.....								563							2	2		
Colby.....						253							1			...		
Columbus.....								283							1	...		
Coolidge avenue.....						1176							2			...		
Conant.....								1791							2	5		
Cumberland.....								663							1	1		
D.....								304							1	...		
Dartmouth.....								769							1	1		
Dickey ..								891							1	2		
Donahue.....								451							1	1		
Donald.....						96		552						1		1		
Douglas.....								2089						1		2		
Dover.....									622						4	7		
Dubuque.....								3004								2		
Dunbarton.....								1210							5	...		
															1	1		



Eric.....	435	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2
Essex .....	.....	.....	.....	.....	686	.....	.....	.....	.....	1	.....	.....	.....
Ferry .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Forest .....	.....	.....	.....	.....	1554	.....	.....	.....	2	.....	.....	.....	1
Fourth.....	.....	.....	.....	.....	218	.....	.....	.....	1	.....	.....	.....	.....
Frederic.....	.....	.....	.....	.....	502	.....	.....	.....	1	.....	.....	.....	1
Front .....	1004	2514	.....	.....	41	.....	.....	.....	2	.....	.....	.....	5
George.....	.....	391	.....	.....	477	.....	.....	.....	1	.....	.....	.....	2
Gifford.....	.....	802	4	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Glenwood.....	.....	.....	.....	.....	191	.....	.....	.....	.....	.....	.....	.....	.....
Goffs.....	.....	.....	.....	.....	825	.....	.....	.....	2	.....	.....	.....	.....
Goffstown road.....	.....	.....	.....	.....	2674	.....	.....	.....	3	.....	.....	.....	5
Granite .....	900	620	1609	.....	.....	.....	.....	.....	2	1	3	.....	9
Green.....	.....	.....	260	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Hancock .....	.....	.....	.....	.....	1710	.....	.....	.....	.....	2	.....	.....	3
Harriman.....	.....	.....	.....	.....	281	.....	.....	.....	.....	1	.....	.....	.....
Hevey .....	.....	.....	.....	.....	2071	.....	.....	.....	6	.....	.....	.....	2
Harvel .....	.....	.....	.....	.....	50	.....	.....	.....	1	.....	.....	.....	.....
Highland .....	.....	.....	.....	.....	524	.....	.....	.....	1	.....	.....	.....	1
Hiram .....	.....	.....	.....	.....	256	.....	.....	.....	.....	.....	.....	.....	1
Huntress .....	.....	.....	.....	.....	707	.....	.....	.....	.....	.....	.....	.....	.....
Joliette.....	.....	.....	.....	.....	1053	.....	.....	.....	3	.....	.....	.....	1
Kearsarge.....	.....	.....	.....	.....	843	.....	.....	.....	1	.....	.....	.....	1
Kelley .....	.....	.....	.....	.....	3257	.....	.....	.....	3	.....	.....	.....	10



Omega .....	274	643	1	1	1	2
Parker .....	5	1048		2		...
Parker avenue.....		180		1		...
Pinard .....	445		1			1
Piscataquog river .....	477		2	1		...
Prince. ....	598		1			2
Putnam .....	970		3			2
Quincy .....		260		1		...
Railroad .....	1606		2			1
Reed.....	481		1			1
Riddle.....	945		1			1
Rimmon.....	2575		1	4		1
Robie .....	836		1			1
Rochelle.....	285		1			...
Rockland .....	2727			4		2
School .....	995		2			3
Second .....	3734		8			6
Schiller ...	566		1			1
Schuyler .....	215		1			1
Sheridan.....	758		1			1
Sherman.....	429		1			1
Shirley Hill road .....	654		1			...
Sullivan.....	361	399	2	1		3
Third.....	442	357	2	1		1



# DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1908.

Size of Pipe.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20-inch diameter.....	20 367 feet.	24,719 feet.	19
14-inch " .....		16,245 "	21
12-inch " .....		35,040 "	42
10-inch " .....		47,091 "	52
8-inch " .....		94,059 "	129
6-inch " .....	234 feet.	341,410 "	745
4-inch " .....		20,537 "	62
	20,601 feet.	579,101 feet.	1,070

Cement lined pipe ..... 3.90 miles

Cast-iron pipe ..... 109.68 "

Total pipe ..... 113.58 miles

851 hydrants.

1,070 gates.

12 air valves.

Respectfully submitted,

CHARLES K. WALKER.

## Uses for which Water is Supplied:

### WATER FIXTURES, ETC.

13,792 families, 102 boarding houses, 18,225 faucets, 6,803 wash-bowls, 6,536 bathtubs, 15,516 water-closets, 1,318 set tubs, 290 urinals, 5,497 sil-cocks, 2,982 horses, 268 cattle, 851 hydrants, 31 watering-troughs, 11 drinking fountains, 74 standpipes, 2 public urinals.

### PUBLIC BUILDINGS.

1 jail, 36 churches, 1 courthouse, 13 hose companies, 7 fire engines, 2 hook-and-ladder, 3 opera houses, 4 convents, 7 hospitals, 6 cemeteries, 1 orphanage, 1 postoffice, 1 city library, 6 banks, 9 hotels, 1 Masonic hall, 2 Odd Fellows' halls, 3 halls, Children's Home, Masonic Home, state armory.

### SHOPS.

58 barber, 11 wheelwright, 18 blacksmith, 10 carpenter, 2 tinsmith, 1 copper, 3 currying, 20 plumber and gas and water pipe, 14 paint, 3 gunsmith.

## STORES.

5 auction, 38 drug, 16 jewelry, 2 fur, 3 house-furnishing goods, 20 fancy goods, 1 wholesale paper, 5 wholesale produce, 24 dry goods, 12 candy, 1 cloak, 16 millinery, 3 tea, 9 furniture, 3 wholesale grocer, 130 grocery, 6 meal, 3 hardware, 34 boot and shoe, 11 stove, 17 gents' furnishing goods, 7 book, 1 leather and shoe finders, 3 music, 6 upholstery, 9 undertaker, 5 sewing-machine, 1 feather-cleaner, 1 rubber.

## SALOONS.

35 dining, 20 billiard, 75 liquor.

## MISCELLANEOUS.

8 clubrooms, 3 bleacherics, 40 laundries, 4 ice-houses, 14 photographers, 1 Mercy Home, 2 old ladies' homes, 1 soldiers' monument, 1 Turner hall, 4 fountains, 2 trust companies, 1 city farm, 3 depots, 9 greenhouses, 2 bandrooms, 32 bakeries, 2 waste, 2 business colleges, 37 schoolhouses, 1 battery building, 1 kitchen, 3 wardrooms, 1 gymnasium, 2 police stations, 6 garages, 1 driving park.

## MANUFACTURING ESTABLISHMENTS.

2 hosiery mills, 1 silver-plating, 2 iron foundries, 2 dye-houses, 4 machine shops, 6 clothing manufactories, 9 harness shops, 1 cornice works, 1 brush shop, 9 carriage shops, 13 cigar factories, 1 brass and copper foundry, 1 locomotive works, 1 grist-mill, 1 silk mill, 3 granite works, 1 electric light station, 4 sash and blind shops, 1 brewery, 11 shoe shops, 1 gas works, 4 slaughter-houses, 2 needle manufactories, 6 beer-bottling, 3 book-binderics, 4 box-makers, 1 paper-box manufactory, 2 hat manufactories, 7 mattress manufactories.

## MARKETS.

5 fish, 14 meat and fish, 5 meat, wholesale.

## STABLES.

14 livery, 1,317 private, 268 cattle.

## OFFICES.

30 dentists, 1 telephone, 2 telegraph, 31 coal, 1 gas, 1 electric, 2 express, 16 printing.

## Materials on Hand.

QUARTER TURNS.		PLUGS.	
3	8-inch.	1	14-inch.
4	10 "	15	10 "
6	6 "	25	12 "
4	14 "	12	8 "
4	4 "	7	6 "
		13	4 "



## PIPE.

24 feet 24-inch pipe.				
8,300	"	20	"	"
120	"	14	"	"
1,644	"	12	"	"
3,840	"	10	"	"
6,588	"	8	"	"
3,516	"	6	"	"
300	"	4	"	"
1,348	"	1	"	"
200	"	$\frac{3}{4}$	"	"
116	"	2	"	"
219	"	$1\frac{1}{2}$	"	"

## BENDS.

1 20-inch 1-8 bend.		
3	8	" 1-8.
4	10	" 1-8.
2	20	" Y.
1	20	" 1-16.
1	14	" 1-8.
1	12	" 1-8.
4	10	" 1-8.
4	8	" offsets.
1	12	" "
9	6	" "
3	10	" "

## BRANCHES.

2 single 10 on 20.		
1	"	6 " 20.
1	"	14 " 14.
1	"	12 " 14.
1	"	10 " 14.
3	"	6 " 14.
4	"	6 " 12.
1	"	4 " 12.
5	"	10 " 10.
2	"	6 " 10.
2	"	4 " 10.
16	"	8 " 8.
7	"	6 " 8.
21	"	6 " 6.

## BRANCHES.

1 double 4 on 8.		
2	"	6 " 20.
1	"	8 " 14.
1	"	6 " 14.
8	"	6 " 12.
2	"	6 " 10.
10	"	8 " 8.
18	"	6 " 8.
10	"	6 " 6.
3	"	4 " 4.
1	"	6 " 8 on 14.
1	"	6 " 10 on 10.
8	"	4 " 6.

## WHOLE SLEEVES.

1 20-inch.	
6	14 "
3	12 "
2	10 "
9	8 "
15	6 "
5	4 "

## REDUCERS.

2 14-inch to 10-inch.		
1	20	" " 14 "
2	14	" " 12 "
1	12	" " 8 "
2	12	" " 6 "
6	10	" " 8 "
2	10	" " 6 "
16	8	" " 6 "
2	6	" " 4 "

## GATES.

4 6-inch spigot.		
6	8	" bells.
2	10	" "
6	4	" "
8	6	" "
1	14	" spigot.
1	14	" bell.
2	12	" bells.

8 hydrants.		
84 pigs of lead.		
168 stop boxes.		
138 curb cocks.		
180 3-4 corp cocks.		
4 gate domes.		
118 meters.		



REPORT  
OF THE  
SUPERINTENDENT OF SCHOOLS.

IN BOARD OF SCHOOL COMMITTEE,

DECEMBER 30, 1908.

The Superintendent presented his annual report to the committee, and it was accepted.

*Voted*, That the report by the superintendent be accepted and adopted as the report of the board, and that it be transmitted to the city councils for publication in the annual City Report.

HARRY L. DAVIS,

*Clerk.*

# SCHOOL DEPARTMENT.

## Organization, 1908.

### SCHOOL COMMITTEE.

EUGENE E. REED, 636 Somerville street, *Ex Officio Chairman.*  
W. PARKER STRAW, corner Franklin and Pleasant streets,  
*President of Common Council, ex officio.*  
EDWARD B. WOODBURY, *Vice-Chairman of the Board.*  
HARRY L. DAVIS, *Clerk of the Board.*

- WARD 1. Elmer D. Goodwin, 5 Stark street.  
James A. Sayers, 37 Kidder street.  
WARD 2. G. M. Davis, 156 Orange street.  
Allan M. Wilson, 97 Salmon street.  
WARD 2. Joel S. Daniels, 78 Ash street.  
Frank L. Downs, 108 Ash street.  
WARD 4. Nathaniel L. Colby, 307 Hanover street.  
William A. Phinney, 450 Manchester street.  
WARD 5. John F. Lee, 224 Central street.  
Dennis F. O'Neil, 223 Green street.  
WARD 6. Harry L. Davis, 552 East Spruce street.  
Maurice Watson, 193 Massabesic street.  
WARD 7. Edward B. Woodbury, 1 Pleasant street.  
Edson S. Heath, 13 Middle street.  
WARD 8. Walter B. Mitchell, 178 Milford street.  
Frank A. Cadwell, 142 Douglas street.  
WARD 9. Timothy F. Cronin, 137 Amory street.  
Arthur L. Prince, 310 Notre Dame avenue.  
WARD 10. Francis X. Lyons, Goffe's Falls.  
J. H. Rice, 191 Jewett street.

### VICE-CHAIRMAN OF THE BOARD.

EDWARD B. WOODBURY.

### CLERK OF THE BOARD.

HARRY L. DAVIS.

### SUPERINTENDENT OF PUBLIC INSTRUCTION.

CHARLES W. BICKFORD.

## SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

## TRUANT OFFICER.

CURTIS W. DAVIS.

## STANDING COMMITTEES.

*Finance.*—Mayor Reed, Messrs. Straw, H. L. Davis, Woodbury, and Cadwell.

*Text-Books.*—Messrs. Woodbury, Mitchell, and Wilson.

*Music.*—Messrs. Sayers, Watson, and Rice.

*Drawing.*—Messrs. Heath, Cronin, and Goodwin.

*Manual Training.*—Messrs. O'Neil, Rice, and Heath.

*Examination of Teachers.*—Messrs. Colby, Lyons, and G. M. Davis.

*Fuel.*—Mr. Daniels, Mayor Reed, Messrs. Straw, Lee, and Phinney.

*Repairs.*—Messrs. Downs, Cadwell, and Prince.

*Attendance.*—Messrs. Goodwin, Sayers, and Wilson.

*Health.*—Messrs. G. M. Davis, Watson, and Mitchell.

## SUBCOMMITTEES.

*High.*—Messrs. Colby, Heath, Goodwin, Downs, and Cadwell.

*Franklin-street.*—Messrs. Woodbury, H. L. Davis, and Lee.

*Spring-street.*—Messrs. O'Neil, Watson, and Woodbury.

*Lincoln-street and Youngsville.*—Messrs. Goodwin, Lee, and G. M. Davis.

*Ash-street and Webster's Mills.*—Messrs. Downs, Rice, and Prince.

*Webster-street and Stark.*—Messrs. G. M. Davis, Mitchell, and O'Neil.

*Bakersville and Mosquito Pond.*—Messrs. Sayers, Phinney, and Watson.

*Varney.*—Messrs. Mitchell, O'Neil, and Phinney.

*Hallsville and Harvey.*—Messrs. H. L. Davis, Daniels, and Sayers.

*Rimmon.*—Messrs. Cronin, Heath, and Daniels.

*Training School.*—Messrs. Wilson, Lyons, and Mitchell.

*Main-street.*—Messrs. Cadwell, Goodwin, and Lyons.

*Parker.*—Messrs. Prince, G. M. Davis, and Rice.

*Wilson.*—Messrs. Daniels, Prince, and Wilson.

*Straw.*—Messrs. Heath, Cronin, and Colby.

*Amoskeag.*—Messrs. Rice, Wilson, and Downs.

*Goffe's Falls and Highland.*—Messrs. Lyons, Cadwell, and Mitchell.

*Pearl-street.*—Messrs. Phinney, Sayers, and Heath.

*Chandler.*—Messrs. Lee, Woodbury, and Cadwell.

*Kindergartens.*—Messrs. Watson, Downs, and Cronin.

*Evening Schools.*—Messrs. Lee, Colby, and H. L. Davis.



## SUPERINTENDENT'S REPORT.

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*To the School Board, the City Councils, and the Citizens of Manchester:*

The following is presented as the sixty-second report of the school department of the city. It is the fifty-third report of a superintendent and covers the year from July 15, 1907, to July 15, 1908.

### ENROLLMENT AND ATTENDANCE.

The whole number of different pupils enrolled during the year has been 5,944, a number smaller by 30 than the enrollment for the preceding year. The average membership, that is the number of pupils who have been members of the various schools for every day of the school year, has been 5,163. This number exceeds that of the last preceding year by 168, and is the largest membership that the schools have ever had. This number, 168, is the numerical measurement of growth during the year and is equivalent to an increase of a four-room building of pupils.

The average daily attendance has been 4,795, an increase of 206. This means that 206 more pupils have been present at school every day than were present during the preceding year. The per cent of attendance has been 92.9 per cent, 1 per cent higher than for the school year 1907.

The number of pupils not absent or tardy was 233, not quite 5 per cent. It would seem that pupils comprising more than 95 per cent of the average membership of the schools are obliged at some time during the year to be absent or are caused to be tardy. Many absences undoubtedly are caused by illness and such are to be reckoned as legitimate. Many others occur because of some form of entertainment or pleasure, and these latter, when the short period of the school year, about one hundred and seventy-five days, is taken into consideration, seem unfortunate and are to be deplored. The majority of children attend school not more than one thousand days and every pupil in good health is entitled to his full measure of education so far as it is furnished by the schools.

Tardiness which is in a great measure the fault of the individual pupil has, on the whole, shown a decrease during the past five years. The number of instances during the past year has been 8,361, which is a decrease of 211. A table is again submitted showing the records of the different schools in this matter. The High, Franklin-street, Lincoln-street, Ash-street, Webster-street, Rimmon, Spring-street, and

Pearl-street schools have materially lower records than for the year 1907. The Spring-street, the lowest of all, had but 12 tardinesses among 174 pupils during 176 days of school, a truly remarkable record. Two rooms in this building were without a tardy mark for the entire year.

TABLE NO. I.

SCHOOLS.	PER CENT OF TARDINESSES.					
	1903		1905	1906	1907	1908
High .....	1.16+	.84+	.91+	.69+	1.05+	.83+
Franklin-street .....	.49+	.45+	.45+	.52+	.66+	.55+
Lincoln-street .....	.73+	.46+	.38+	.52+	.55+	.29+
Ash-street.....	.24+	.23+	.25+	.25+	.30+	.15+
Varney.....	.22+	.14+	.22+	.26+	.22+	.31+
Webster-street.....	.29+	.31+	.36+	.44+	.32+	.18+
Bakersville.....	.48+	.48+	.35+	.41+	.28+	.26+
Hallsville .....	.66+	.43+	.49+	.60+	.45+	.40+
Rimmon.....	.47+	.66+	.60+	.67+	.81+	.47+
Wilson.....	.38+	.18—	.25+	.19+	.17+	.19+
Parker.....	.23+	.32—	.25+	.22+	.28+	.22+
Straw .....	.47+	.34+	.22+	.07+	.05+	.09+
Spring-street .....	1.00+	.55+	.46+	.61+	.32+	.001+
Amoskeag.....	2.09+	1.68	1.40+	.93+	.76+	.74+
Merrimack-street.....	.73+	.89+	.59+	.42+	.43+	1.91+
Main-street.....	.25+	.23+	.18+	.26+	.24+	.22+
Pearl-street .....	.54+	1.08+	.46+	.45+	.56+	.26+
Highland.....	.45+	.46+	.40+	.68+	.75+	.74+
Goffe's Falls.....	.57+	.90+	.78+	1.64+	1.62+	1.14+
Chandler.....	.....	.....	.....	.....	.19+	.19+
Ungraded .....	3.43+	2.02+	3.10+	2.94+	2.17+	2.52+

## SCHOOLS AND TEACHERS.

As shown by the registers kept, the city has maintained for the year 141 schools, the equivalent of 16 in the High school, 38 of grammar grade, 30 of middle grade, 48 of primary grade, 1 partially graded, 5 ungraded, and 3 kindergarten. This is an increase of 2 over the number for 1907. The increases have occurred in the Parker building

through the opening of a kindergarten, and in the Amoskeag building through the maintenance of an additional primary room for two terms.

One hundred and forty-four rooms have been used regularly for the seating of pupils, 16 in the High school, 37 of grammar grade, 30 of middle grade, 47 of primary grade, 1 partially graded, 5 ungraded, 4 for kindergartens, 3 manual training rooms, and 1 room at the Goffe's Falls school for grammar and middle classes, this last for one-half of the year only.

There have been employed 17 teachers of High school grade, 46 of grammar grade, 29 of middle grade, 48 of primary grade, 1 for a partially graded school, 6 ungraded, 6 kindergarteners, 4 special teachers of music and drawing, 3 special teachers of manual training and 2 regular teachers of the Training school-for teachers, a total of 162 instructors for the year, not including the members of the training classes. This is the average number for the year. Miss Marden at the Amoskeag school taught for two terms, and Miss Pyne at the Goffe's Falls and Highland schools taught for one half of the year, these two giving an average of one teacher for the year. Of the whole number employed, eight were supervising principals, four were special teachers, three were teachers of manual training, three were kindergarten assistants, and four were assistants in crowded schools. The remaining 141 are classed as keeping registers. This explains the difference between the number of teachers employed and the number of schools maintained in the eyes of the law. Exclusive of the High school, the number of rooms occupied for purposes of instruction was three more than the number of registers. This may be explained as follows: in the Rimmon school two more registers are kept than there are rooms in the building; the Manual Training school, three rooms, notes the presence or absence of pupils but does not keep a state register, the pupils being recorded in their various schools; at the Spring-street school and at the Goffe's Falls school two rooms are used for instruction, no registers being kept, the pupils being recorded in the other rooms of the buildings. In five rooms, therefore, no registers are kept and in one building two more registers are kept than there are rooms. The difference between five and two equaling three accounts for the discrepancy between 144 rooms and 141 registers or schools.

#### ACCOMMODATIONS.

The last report of this body to the State Department of Public Instruction stated that five schoolrooms in town were not used for purposes of instruction. These rooms are situated as follows: one in the Straw building, one in the Chandler building, two in the Spring-street building, and one in the Manual Training building on Lowell street.

The completion of the remodelling of the Hallsville building has added two to this list, so that there are today seven unoccupied school-rooms. That in the Lowell-street building will soon be needed for the purposes of the Manual Training school. Those in the Spring-street school are not at present fit for school purposes. There are accordingly four vacant rooms well fitted and available for sittings for school children when the demands of the districts in which they are located shall require their use.

Under the direction of a joint committee of the School Board and City Government the Hallsville school building has been enlarged by the addition of four schoolrooms together with desirable teachers' rooms, cabinet rooms, etc. This was accomplished by cutting the building in two from north to south, moving the easterly half of the same towards the back of the schoolhouse lot by a distance of about forty feet, and building the needed rooms between these separated halves of the original building. At the same time an additional main entrance, easily accessible from the main hall, was provided on the easterly side of the building, which is thus rendered much safer in case of fire.

As an additional precaution and means of exit in case of fire, all the rooms on the north side and all on the south side of the building open into one another so that it is possible for pupils to pass from one end of the building to the other without entering the hallways. The rooms have been equipped with modern adjustable desks and chairs. The result of the enlargement is a twelve-room school building, pleasant, commodious, well-lighted and ample to meet the needs of this section of the city for some time to come.

I understand that a petition has been circulated among the residents of the Youngsville district asking for increased accommodations for the school children of this section. The petition, according to last information received by me, has received the signatures of the taxpayers and patrons of the school to the number of 139. This matter was brought to your attention one year ago. Since that time conditions have remained practically as formerly in the district. The school is an ungraded one. Two teachers are employed and they conduct their classes in the same room. The room is nearly filled with seats for pupils, the floor room is insufficient and the blackboard space limited. Some confusion must result from the conduct of work in such a limited space by two teachers at the same time. The average membership of the school for the past year was 44. During the term just closed it has been 42. The district is a growing one, lots are being sold and streets opened. The petition of the residents of the district is just and reasonable. They should be given a new building.

During the year 1900 the attention of the school board was called to the over-crowded condition of several schools. A special committee was appointed to investigate the matter and report thereon to the board. With the completion of the addition to the Hallsville



school all of the recommendations of that special committee have been carried out with one exception. That one exception is the Rimmon school. For the past eight years six teachers have been carrying on work in a building designed for four. The primary room covering two grades, lower and higher, has registered from 70 to more than 90 pupils each year. For 1908 the registration was 73. For the term just closed the registration has been 81, the average membership 74, and the average daily attendance 68. The room was designed to accommodate 48 pupils. Conditions in this room practically duplicate those of the Hallsville school previous to its enlargement. It is impossible to ventilate adequately, and the changing of classes from room to hallway, where part of the work is carried on, is distracting to the attention and wasteful of time however carefully it is carried out.

In the highest room in the building the condition in regard to conduct of classes is the same as in the lowest without the excess of numbers, there being at the present time but 46 pupils registered in the room. These conditions demand amelioration and the people of the district are entitled to facilities equal to those furnished in other sections. Four more rooms should be added to this building. The success in moving the Hallsville building moves me to suggest that the present building be turned so as to face the south and that four rooms be then built on the north side of the building. The present hallways will be ample for all the rooms and the cost of such an addition will be thereby diminished. I recommend this plan for your serious consideration.

Again, the near future should take into consideration the providing of a new building for wards 1 and 7 to replace the Franklin-street and Spring-street buildings. Economy in administration would direct the union of these two buildings in a structure perhaps somewhat similar in character to the enlarged Hallsville building on a lot situated somewhere between the present sites of the two schools.

#### CHANGES AND TRANSFERS.

The following teachers have severed their connection with our schools during the past year: Miss Mary A. Buzzell, Miss Etta L. Stearns, and Miss Bertha Allen of the Lincoln-street school; Miss Flora M. Walker and Miss Ethel Nicholson of the Hallsville school; Mr. Percy N. Folsom of the Rimmon school; Miss Nellie M. James of the Straw school; Miss Agnes Shay and Miss Lura K. Kimpton of the Chandler school.

The hand of death has twice intervened during the year and removed from our corps of teachers Miss Theresa B. Stanton of the High school, and Miss Bessie Leckie of the Varney school.

The vacancies thus caused by deaths and withdrawals have been filled as follows: That of Miss Stanton of the High school by the elec-

tion of Miss Marion Ames, and that of Miss Leckie of the Varney school by the election of Miss S. Grace Crosby; those in the Lincoln-street school, by the election of Miss Bertha Crowell to the vacancy caused by the retirement of Miss Buzzell, the transfers of Miss Henrietta Wilder from the Stark school and Miss Katherine Frain from the Rimmon school to the vacancies caused by the resignations of Misses Stearns and Allen; the positions in the Stark and Rimmon schools being filled by the election of Misses Annie E. Babcock and Mary S. White. The vacancies in the Hallsville school have been filled by the election of Miss Mary Mooar and the employment of Mrs. Alfreda Laraba as substitute for one term; that in the Rimmon school by the election of Mr. Harrison N. Bowen; that in the Straw school by the election of Miss Ida Crowther; that of Miss Shay in the Chandler school, for whom Miss Kimpton was a substitute transferred from the Franklin-street, by the transfer of Miss Jennie McLaughlin from the Goffe's Falls school, Miss McLaughlin's school being taken by Miss Lauretta Sawtelle, a graduate of the Training school. Miss Mary Morrow was elected to the position made vacant by the transfer of Miss Kimpton.

At the close of the school year, two teachers were added to the High school corps, Miss Bertha Healy and Miss Oriola Martin; Miss Cora B. Russell was elected to the vacancy caused by the resignation of Miss Nellie Pickering. Miss Nellie Dunnington was transferred from the Pearl-street school to be the principal of the re-christened Merrimack-street school. Miss Dunnington's former position was filled by the transfer of Miss Alice Walsh from the Franklin-street, this last vacancy being in turn filled by the election of Miss Ida Montgomery. Misses Ella N. Chapman, Mary G. Brennan, and Clydie Flanders were elected teachers of the remaining rooms in the Merrimack-street building, the last two being transferred from the Spring-street and Webster's Mills schools respectively. Miss Jennie Landers, a graduate of the Training school, was elected to the vacancy in the Spring-street, and Miss Mary Walker to that in the Webster's Mills school.

One new room was opened at Amoskeag at the beginning of the winter term in 1908, and Miss Bertha Marden was elected teacher. Miss Gertrude Pyne has been and is now employed as an assistant teacher in the Goffe's Falls and Highland schools.

#### TRAINING SCHOOL FOR TEACHERS.

The semi-centennial report of the public schools of the city gives in full the history of the Training school for teachers from its inception in 1869 up to the time of that report. It contains complete lists of both teachers and graduates. The following data will complete the history of the school up to the time of its abolition.

Principals.—Miss Caroline E. Wing, 1887-1907; Miss Sarah J. Rogers, 1907-1908.



Graduates since 1896.—Bessie Cochran, Maud M. Greaney, Mary L. Heath, Mabel E. Robinson, Katherine Frain, Lura B. Gage, Florence L. Abbott, Lillian F. Crowther, Winnifred W. Hall, Florence Richardson, Gertrude Adams, Annie B. Angel, Mary E. McLaren, Grace A. Phillips, Ede B. Quimby, Flora M. Walker, Elizabeth F. Walsh, Florence H. Moore, Ethel A. Nicholson, Sarah Price, Annie E. Walsh, Mathel C. Henry, May L. Lovejoy, Kathryn McKeon, Florence M. Ward, Bertha A. Allen, Eda M. Barr, Bertha V. Franks, Lora E. Hill, Gertrude Porter, Amy E. Davison, Lizzie M. Flanders, Edith A. Murphy, Carlena A. Savory, Grace Whittemore, Florence M. Francis, Martha J. Kennedy, Annabel F. Landers, Maud E. Winegar, Bertha M. Fogg, Marjory S. Woodbury, Lena B. Bower, Ethel F. Currier, Helen F. Lyons, Ada B. Morse, Bessie J. Bartlett, Alice B. Morrill, Agnes Shay, Agnes M. Woodbury, Bessie M. Abbott, Blanche L. Bryant, Alice F. Good, Laurette McKendree, Elizabeth H. Callaghan, Myrtle Slager, Lillian Whitney, Vivian E. Matthews, Jennie F. McGrath, Sarah McKelvie, Gertrude S. Mitchell, Jennie Russell, May L. Woodcock, Ella M. Chapman, Jennie M. Landers, Lauretta B. Sawtelle, Mary S. White.

There remain to receive diplomas in June, 1909, upon the completion of their year of practical work in the schools Misses Rebecca Grant, Lula Kean, and Nettie Rennie. (69.)

The following named have entered the Training school since 1896, but for various reasons have not finished the course: Lena M. Crough, Flora B. Phinney, Margareta A. Vittum, Delia Clark, Bertha Hersey. (5.)

The graduates of the school number 216, while those entering number 247. The school was discontinued in June, 1908.

#### HEALTH.

Several school buildings were closed for brief periods during the year because of the presence of diphtheria among the pupils. The various buildings were thoroughly cleaned by the school department and fumigated by the Board of Health, for which latter service due and grateful acknowledgment is hereby made. It is worthy of remark that these epidemics with the consequent closing of the schools occurred before the installation of the sanitary drinking fountains. True, cases of diphtheria have occurred since the installation of these last, but they have been fewer and the disease has not spread as formerly. I believe that our freedom from the scourge has been in a large measure due to the abandonment of the common drinking cup. There is, however, need of more of these drinking fountains. It is practically impossible in the time allowed for an afternoon recess for every pupil to obtain a drink of water. The children of a building form a line, move up slowly and drink in turn. Many of the lower grade pupils prefer to utilize their time in playing rather than wait in line for a drink of water and often fail to drink when they really need the

liquid. It is a general criticism that we fail to drink as much water as is best for us. The healthy adult needs about two quarts daily to supply the waste by skin, lungs, and kidneys. Obviously the drinking of water should be encouraged among children. I recommend the installation of additional drinking fountains in the basements of the larger schools.

The matter of medical supervision was brought to your attention in the reports for 1906 and 1907. There are unquestionably among our pupils some feeble-minded, mentally deficient children. These need special treatment. They should be segregated and dealt with each according to his needs. There are others not deficient mentally, but the avenues to whose minds, the senses that is, are clogged by abnormal physical conditions. Such are children with adenoids, with defective eyes and ears. The proper diagnosis of such cases should be made and the parents fully informed in order that remedial measures may be employed. Cases of skin diseases, itch and ringworm occur. These last may exist for some time before being discovered by the teacher. They are a source of danger to the entire school. Medical supervision could mitigate all of these evils. The chairman of the present committee upon health has given freely of his time and knowledge to the diagnosis of such cases as have been brought to his attention. But these have been those only that were most marked, where the fact that something was wrong was patent even to the eye inexperienced in detecting symptoms of disease.

A periodical examination of pupils should be made both for the detection of physical defects and of disease. I urge this matter upon your consideration.

#### NO SCHOOL SIGNAL.

The revised rules of the school board adopted at the June meeting provide that the no-school signal upon the fire-alarm bells of the city shall be given for the middle and primary children alone. The High and grammar schools will hold regular sessions upon every school day regardless of the weather. The new rule would seem to be an improvement upon the old.

It is impossible to predict at all times with certainty the state of the weather one hour in advance of a given time. A storm may be of great severity at seven-thirty in the morning, the wind may be in the quarter for foul weather, the clouds may present every appearance of a copious downfall of snow or rain, and yet before eight-thirty this condition may have changed so completely that the very idea of closing schools seems an absurdity. On the other hand, the weather may appear simply threatening, no storm having commenced at the time for the sounding of the signal and yet weather conditions three quarters of an hour later may indicate most plainly that the no-school signal should have been given.

Again, individual judgments vary greatly in regard to the degree of severity of the storm necessary to justify closing school. Upon lowery mornings, even, inquiries are made by 'phone as to whether "the schools are going to ring out." Protests are made if they close, but more numerous and more vigorous ones are made if they do not.

Conditions in regard to walking vary greatly in different sections of the city. In the more compact portions the walking is better and pupils dwelling within a short distance of the school are exposed to the elements for but a short time. Facilities for drying dampened clothing very greatly in different school buildings. The newer buildings have been supplied with hot air registers in view of the necessity for their use for this very purpose.

On those days when schools are closed many children are to be seen playing in the streets. Some pupils naturally are anxious that the no-school signal shall be given. They are eager for a change of activity and hence comes what to my mind is a great evil of the no-school signal, to quote from the report of a sister city, "It creates an unrest, belittles the necessity of steady, every-day effort, cheapens the importance of the school, weakens character, develops and fosters the idea that nothing disagreeable is to be experienced and endured." On the other hand, the health of children is of first importance and unwise exposure of insufficiently clad children is criminally careless. There is a wide difference in the constitutions of children. The parent has the best knowledge of the physique of the individual child and should know whether or not the weather is too severe for his exposure to its dangers. No pupil will be deprived of his promotion for failure to attend school upon stormy days. The new regulations provide that whenever the signal for closing the middle and primary grades is sounded the pupils in these grades who desire to attend school will be given the opportunity, that the registers will not be marked and that all teachers will be present and care for those pupils who attend as their interests shall require. The whole matter might well be left to the judgment of the parents.

#### SCHOOL CENSUS.

The second triennial census of the children of the city between the ages of five and sixteen years was taken in the month of September last. The enumerators report 5,435 boys and 5,558 girls, a total of 10,993. Eight thousand four hundred and ninety-five of these were born in New Hampshire, 1,136 were born elsewhere in the United States, 1,356 were born in foreign countries, and the places of birth of 6 were not known.

The preceding census showed a total of 11,578 children. According to the returns there are then in the city at the present time fewer children by 585 than there were three years ago.

The number of illiterates reported was 132. The number reported three years ago was 34. There has been an increase of 98, almost 33 per year. The number reported as not in school was 348, 1,095 were so reported in the former census. This is a decrease of 747, and is a most favorable sign. It is to be inferred that the great majority of these 348 are less than eight years old, at which age school attendance becomes compulsory.

The whole number of children between the ages of five and eight is reported as 2,989. Three thousand seven hundred and thirty-eight girls and 3,834 boys between the ages of eight and sixteen are reported as in school.

An enumeration of the children in the parochial schools of the city made by Mr Davis in the month of November shows that there were then belonging in those schools 5,227 pupils. The attendance reports of the public schools for the same month show a membership of 5,433. The two systems combined show a membership of 10,660. This number deducted from 10,993, the total of the census returns, leaves 333 pupils not in school. The return of the census enumerators for the same item was 348, a difference of 15, an error of no large proportions when the magnitude of the work of enumerating all the children is considered.

#### FIRE PROTECTION.

The lesson of the Collinwood disaster has been heeded by Manchester in common with hundreds of other American cities. Under the direction of the efficient subcommittee, appointed for that purpose, such entrance doors as opened towards the interiors of the school buildings have been changed to open towards the outside. Double doors have been equipped with bolts at top and bottom connected by a rod, so that both bolts are sprung by the turning of a handle in the center. Outside doors have been so equipped that they will always open from the inside by the turning of a knob. Nine fire escapes have been installed upon the Franklin-street, Varney, Wilson, Main-street, and Straw buildings.

Mr. Rice, chairman of the subcommittee, informs me that the amount expended for the fire escapes was about \$1,500, and the total cost of all changes was about \$1,925.

#### RETARDATION.

The elementary schools of the city are classed as primary, intermediate, grammar, partially graded and ungraded. The primary schools cover the first three years of school work, the intermediate the fourth and fifth years, the grammar the sixth, seventh, eighth and ninth years.

It is a well-known fact that the number of pupils in the second year is smaller than in the first, the number in the third smaller than



that in the second, in short that in each year of school fewer pupils are to be found than in the preceding.

The data by grades for the school years 1893-1908, as preserved in the reports of this department, are given below, the classification being by rooms from one to eight. The first two rooms cover the work of one and one-half years each, the remainder the work of one year each. Our system of statistics will not admit of the giving of the numbers by years and these numbers in each of the first three years can be arrived at only by a system of approximation.

TABLE No. II.

Showing the Number of Pupils in Each Grade of School, 1893-1908,  
Based on Average Membership.

	1st	2d	3d	4th	5th	6th	7th	8th
1908 .....	1,134	758	570	504	419	361	309	312
1907 .....	987	757	592	527	433	395	305	293
1906 .....	1,084	761	525	497	461	346	301	291
1905 .....	1,029	741	577	504	484	314	297	299
1904 .....	1,222	771	581	462	445	303	278	285
1903 .....	1,093	816	548	490	447	278	289	251
1902 .....	1,109	951	559	533	455	307	272	272
1901 .....	1,123	655	559	507	427	297	256	240
1900 .....	917	698	616	469	381	313	240	269
1899 .....	1,045	714	582	459	336	300	253	252
1898 .....	944	828	561	470	302	293	256	253
1897 .....	942	774	538	441	312	281	233	259
1896 .....	1,001	721	375	462	362	269	211	192
1895 .....	899	739	442	373	362	213	209	190
1894 .....	865	691	417	355	321	206	232	188
1893 .....	849	621	348	330	302	217	200	184

Table II, as stated before, gives the number in each room for a period of sixteen years. Inasmuch as the work of the first two rooms covers a period of one and one-half years each, work being carried on in three divisions and promotions being made semi-annually, a fair approximation to the number in each year may be obtained by taking two thirds of the number in room one for first-year pupils, one third of room one and one third of room two for second-year pupils, and two thirds of room two for third-year pupils. On this basis another computation, Table No. III, is given, showing the number in each year for the years 1893-1908 inclusive.

TABLE No. III.

Same as Table II, with Numbers Approximated for Each of the First Three Years.

	1st	2d	3d	4th	5th	6th	7th	8th	9th	Graduated from High School
1908 .....	756	631	505	570	504	419	361	309	312	103
1907 .....	658	581	505	592	527	433	395	305	293	78
1906 .....	723	615	507	525	497	461	346	301	291	78
1905 .....	686	590	494	577	504	484	314	297	299	63
1904 .....	815	664	514	581	462	445	303	278	285	
1903 .....	729	636	544	549	490	447	278	289	251	
1902 .....	740	653	567	559	533	455	307	272	272	
1901 .....	749	593	436	559	507	427	297	256	240	
1900 .....	612	538	465	616	469	381	313	240	269	
1899 .....	697	586	476	582	459	336	300	253	252	
1898 .....	629	590	552	561	470	302	293	256	253	
1897 .....	628	572	516	538	441	312	281	233	259	
1896 .....	667	574	481	375	462	362	269	211	192	
1895 .....	599	546	493	442	373	362	213	209	190	
1894 .....	577	519	460	417	355	321	206	232	188	
1893 .....	546	480	414	348	330	302	217	200	184	

A more extended study of the problem would require the ages of all children in the grades and the number of each age in each grade. There would also be required a complete list of the number promoted from year to year. These last two sets of data are not obtainable from any records in this department for the period covered by the sixteen years of the two tables. Another table is given (Table IV) covering a period of twelve years, 1897-1908 inclusive, showing the percentage of membership among the High, middle, primary and ungraded schools.

TABLE No. IV.

Showing Percentage of Membership Among High, Middle, Primary, and Ungraded Schools.

Year.	Primary, Per cent.	Middle, Per cent.	Grammar, Per cent.	High, Per cent.	Ungraded and Kindergarten, Per cent.
1908 .....	37	21	27	10	5
1907 .....	35	22	29	10	4
1906 .....	38	21	28	9	4
1905 .....	37	22	29	9	3
1904 .....	41	21	27	8	3
1903 .....	40	22	26	9	3
1902 .....	41	23	25	8	3
1901 .....	39	24	27	8	2
1900 .....	37	25	27	9	2
1899 .....	39	24	26	9	2
1898 .....	40	23	25	9	3
1897 .....	41	23	26	7	3



Another table (Table V) shows the average membership, the number failing of promotion in all grades, the percentage of failures and the number receiving double promotions for a period of three years, 1906-1908 inclusive.

TABLE No. V.

Showing the Average Membership, the Number Failing of Promotion, the Percentage of Failures and the Number Receiving Double Promotions for the Years 1906-1908 Inclusive, Based on Average Membership.

Year.	Average Membership.	No. not Promoted	Per cent.	Doubly Promoted
1908 .....	5,163	733	14	45
1907 .....	4,995	758	15	25
1906 .....	4,907	568	11	66

Tables II, III, IV, and V contain the most important statistical data for the study of retardation and elimination available from the reports of this body. The figures in Tables II and III may be reduced to a percentage basis but they must be fundamental for all observations drawn from numbers.

Our course of study being one of nine years, the pupils in the first year in 1893 should, were there no loss or dropping out, graduate from the grammar school in 1901, and from the High school in 1905; those in the first year in 1894 should graduate from the grammar school in 1902, from the High school in 1906, and so on.

Table VI, deduced from Table III, shows the proportion of pupils in the ninth year as compared with those in the first year according to the previous statement as well as the percentage graduating from the High school in the years 1905-1908 inclusive.

TABLE No. VI.

Entering Year.	No. in 1st Year.	Graduation Year.	No. in 9th Year.	Loss.	Loss. Per cent.	Graduating from High School.	%
1893	546	1901	240	306	56+	1905	11½
1894	577	1902	272	305	53+	1906	13½
1895	599	1903	251	348	58+	1907	13
1896	667	1904	285	382	57+	1908	15
1897	628	1905	299	329	52+		
1898	629	1906	291	338	52+		
1899	697	1907	293	404	59—		
1900	612	1908	312	300	49+		

It will be seen that the percentage of those who dropped out of school during this period varies from 49 to 58, the average for the eight years being 54½. That is, of every 100 pupils entering during

a given year 55 fail to reach the ninth grade, and 45 complete the nine-year course. Again, of those pupils beginning school in 1893-4-5-6, from 11 to 15 per cent graduated from the High school, the average for the four years being  $13\frac{1}{4}$ . This means that out of every 100 pupils entering school during the before-mentioned years 13 graduated from the High school in 1905-6-7-8.

A study on "Elimination by Grades," by Edward G. Thorndyke, gives, on page 15, the estimated percentage of pupils who continue through all the grades, for twenty-three cities. It is interesting to compare our own standing, as shown by the figures before given, with the standings of these different cities. The list of cities is as follows, with the percentage in the seventh, eighth or ninth year, according to the length of the elementary course, and in the fourth year of the High school.

City.	7th Year.	8th Year.	9th Year.	High School 4th Year.
Baltimore .....		14.4		2.3
Boston .....			47	6.3
Cambridge .....			41.9	13.9
Chicago .....		35		5.5
Cleveland .....		33.1		7.4
Denver .....		44		
Jersey City .....		26.4		2.4
Kansas City .....	49.4			16.5
Los Angeles .....		45.1		6.2
Malden .....		54		14.9
Manchester .....			45.5	13.2
Minneapolis .....		32		10.3
Newport .....			44.9	8.2
Newark .....		25		3.8
New Haven .....		35		9.1
New York .....		33.7		
Paterson .....		19.4		3.7
St. Louis .....		21		3.2
Springfield .....			38.5	12.8
Trenton .....		30.6		11.6
Washington .....		52.1		
Waterbury .....		43		8
Wilmington .....		39		
Worcester .....			58	26.4

Five of these cities have a larger percentage in the last grade than the city of Manchester. They are in order: Worcester, 58; Malden, 54; Washington, 52.1; Kansas City, 49.4; Boston, 47; Manchester coming next with 45.5, followed by Newport, Denver, Waterbury, and Cambridge.

It will be observed that but four surpass our city in percentage com-

pleting the High school course. They are: Worcester, 26.4; Kansas City, 16.5; Malden, 14.9; Cambridge, 13.9; Manchester coming next with 13.25.

The study of these data would seem to indicate somewhat our standing educationally so far as the action of the different factors eliminating pupils from the public schools is concerned. These factors in our community are undoubtedly the necessity for the wages of the child to support the family and lack of interest in and capacity for school work. This last is an argument for a variety in the course of study, for the introduction of such forms of handwork as will engage the attention and develop the capacity of the pupil. To what extent the educational system is at fault for the loss of pupils is a much debated question. In the opinion of Professor Thorndyke the character of the city's population is the chief determining factor in the loss of pupils, and he remarks in substance that there may be a somewhat close relation between ability to keep pupils in school and the character of the teachers employed, it being granted that the cities paying the highest salaries have the ability to secure the best teachers. Our standing in comparison with the cities mentioned in the matter of grade distribution is in no wise discreditable. It naturally directs attention to those cities surpassing us and raises the question, "To what is due their leadership in the matter?" Is it to local conditions, or to the efficiency of the school systems, or to both, and if to both in what degree to each?

Table IV showing the percentage of membership in the different grades as classified at the beginning of this topic indicates that the relation between the grades is fairly constant and that consequently the causes which impel pupils to leave school are constant in their operation and have been so for a period of at least twelve years. A large percentage of primary membership in any one year would indicate a large middle school percentage the third year following, and this is generally shown by the table. It also shows a gradual increase in the percentage of pupils in the High school as well as in the ungraded and kindergartens, the increase in this latter percentage being chiefly due to the kindergarten pupils.

Table V, showing the percentage of pupils that have failed of promotion during three years, is presented to preserve the information as well as to exhibit what is denominated as educational waste. The average for the three years is  $13\frac{1}{3}$  per cent. The recent study of retardation names 20 per cent as the common measure of failure. The 733 failures in 1908 represent each a loss of one half a year of educational opportunity. Three hundred and sixty-six and one half years are then represented by these failures. This is equal to the failure of 366 pupils for one year, the equivalent of nine rooms for one year. With teachers paid at the rate of \$600 this should represent a cost of \$5,400. As a matter of fact it represents among the elementary chil-

dren about three pupils per room for the year, and the city would not have spent one cent less for instruction had the failures not occurred. It is, however, a waste and is bound to affect in a measure the economic conditions of the community at a later day through the lack of efficiency which might have been but failed to be developed.

In order to secure material to assist in the elucidation of this problem there should be obtained from each room at the time of each semi-annual promotion first the number of children in each year of school, second the aggregate of their ages, third the number in each year's work failing of promotion, fourth the number over age in each year's school work, fifth the number known to have left school with the reasons for the same.

#### GRADING.

I recommend the consideration of the advisability of changing the course of study from a nine-year course to an eight-year course, admitting pupils at the approximate age of six. First, this is the length of the general elementary course throughout the country; second, the state course of study is constructed upon this basis; third, there would probably be less retardation in the primary grades; fourth, the cost of education per pupil for the entire course would be decreased. In short, I believe that the reduction would make for educational efficiency and economy.

#### HONORABLE MENTION.

The closing of a long term of service with its consequent devotion to any interest is deserving of mention and should be made a matter of record. The present year will mark the retirement from the board of education of nine of its members. Conspicuous among these for length of term and interest in the educational welfare of the community are the Rev. N. L. Colby and Mr. Edson S. Heath.

Mr. Colby was first elected to this body in the fall of 1904 to represent ward four. His term of service has accordingly been continuous for a period of fourteen years. He has served upon various subcommittees and now at the time of retirement is chairman of the committee upon the examination of teachers and of that upon the High school.

Mr. Heath was first elected to serve upon the school board in the fall of 1896, and is accordingly completing a term of service of twelve years. He has been a member of various subcommittees, and is at the time of retirement chairman of the committee upon drawing and upon that of the Straw school.

Mr. Goodwin was first elected to this body in 1904 to complete the unexpired term of Mr. Walter B. Heath. He has since been twice re-elected by the people of his ward and completes with the present year a term of five years.



Mr. Sayers of ward one, Mr. Daniels of ward three, and Mr. O'Neil of ward five were elected to represent their respective districts in the administration of school affairs in the fall of 1904, and accordingly complete terms of four years each.

Messrs. Watson, Cronin and Prince have served the community for terms of two years each, and have been no less interested in school affairs and rendered services no less valuable in character though for shorter periods than those serving for a longer time. Dr. Watson has represented ward six, and Messrs. Cronin and Prince ward nine.

#### OBITUARY.

The schools of the city have twice suffered great loss by death during the year just closed.

On the eleventh day of January, 1908, after a brief illness, Miss Theresa B. Stanton, senior teacher of English in the High school, passed from this life to the life eternal. Miss Stanton began her term of service in our schools in April, 1894, and had most faithfully and conscientiously instructed the youth of our city for a period of almost fourteen years. She was loved by pupils and by her associates. The sphere of her influence was wide and all brought within it were conscious of and elevated by the power and beauty of her life and character.

On the twenty-first day of July, 1908, as the result of a sad accident, Miss Bessie F. Leckie departed from this to the life to come. Miss Leckie began her term of service as a teacher in the Varney school in the month of September, 1905, and accordingly had been in the service of the city for a period of three years. She was a most promising teacher and had endeared herself to the patrons of the school. Her loss is mourned by a wide circle of associates and friends.

#### CONCLUSION.

The members of the school board are responsible to the community for the conduct of school affairs. Among the multitude of matters in the charge of the board, one of the first in importance is that of selecting suitable teachers. The efficiency of the school system depends to a greater degree upon the qualification of its teachers than upon any other factor. Accordingly, the sole consideration in filling new positions should be "Is this teacher the best that can be obtained for the work to be done?" Considerations of locality and constituency are subsidiary. To allow such to be the determining factor in the election of a teacher is to pervert education from its true purpose. Furthermore it is a source of moral weakness. Every teacher should feel that he is hired upon his merits, that the character of his work is the sole standard recommending him to the consideration of this body, and his work once proven he should be secure

in his position. Consider the state of mind of a person employed for any other reason. Is it such as one would desire to have daily before his children? Is it such as can inculcate that independence of spirit, that impartiality, that sense of justice and equity which are the most important products of school? The employment of teachers upon any other ground than that of merit is to pollute the fountain head of education.

That the general standard of our teaching is so high is a source of gratification. The necessity of maintaining this standard is apparent to all. The school board, under the law, is the agent responsible for its maintenance.

Due acknowledgment is hereby made to teachers, school board, and citizens for the success and prosperity of the schools during the past year.

Respectfully submitted,

C. W. BICKFORD,  
*Superintendent.*



## APPENDIX

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- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. ATTENDANCE TABLES.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1907-1908.
- IX. HIGH SCHOOL GRADUATES.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1909.
- XII. LIST OF TEACHERS, 1909.
- XIII. SCHOOL YEAR, 1908-1909.

# APPENDIX

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## STATISTICS.

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### 1. Population.

Population of the city by last census, 1900.....	56,987
Legal school age, 5 to 21.	

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### II. Schoolhouses.

Number of schoolhouses in use .....	26
Number of schoolhouses not in use .....	0
Number of schoolrooms used for day schools .....	144
Number of rooms used for high school classes .....	16
Number of rooms used for grammar schools .....	37
Number of rooms used for middle schools .....	31
Number of rooms used for primary schools .....	47
Number of rooms used for partially graded schools ...	1
Number of rooms used for ungraded schools .....	5
Number of rooms used for Manual Training school ...	3
Number of rooms used for kindergartens .....	4

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### III. Schools.

(All for both sexes.)

Number of high school buildings.....	1
Number of combined grammar and lower grade (middle and primary) schools .....	16
Number of combined middle and primary schools.....	3
Number of ungraded schools .....	5
Number of manual training schools (for boys) .....	1

## IV. Teachers.

Male teachers in the High school.....	5
Female teachers in the High school .....	12
Female teachers in Training school.....	2
Male teachers in the grammar schools .....	7
Female teachers in the grammar schools .....	*39
Female teachers in the middle schools .....	†29
Female teachers in the primary schools .....	†48
Female teachers in the partially graded schools .....	1
Female teachers in the ungraded schools .....	6
Female teachers in the kindergarten .....	6
Male teachers in the Manual Training school .....	3
Special teachers .....	4
Average number of male teachers .....	17
Average number of female teachers .....	145
Total average number of teachers in day schools.....	162
Male teachers in the evening schools .....	8
Female teachers in the evening schools .....	13
Male teachers in the evening drawing schools.....	2
Average number of male teachers in the evening drawing schools .....	2

\*Six of the 39 masters' assistants.

†Not including training school.

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR  
1907-1908.

SCHOOLS.	* Whole number belonging.		Average mem- bership.	Average daily attendance.	Per cent of attendance.	TEACHERS.
	Boys.	Girls.				
High School .....	242	305	529	508	96.1	George H. Libby, Master. G. I. Hopkins, Submaster. Harry N. McLaren. Allan E. Herrick. Charles F. Bates. Nellie Pickering, 1 term. Grace Bennett, substitute 2 terms. Theresa B. Stanton, 1 term. Marion D. Ames. Mary J. Wellington. Annie W. Colby. Mary H. Dowd. Winona M. Martin. Elsie D. Fairbanks. Annie M. Vose. Edith M. Pierce. Helen I. Buck. Bertha A. Blanche*, Lora E. Hill, substitute 1 term. Elizabeth Neal.
						Assistants.
GRAMMAR SCHOOLS.						
Franklin-street, First Division.....	23	17	36	35	95.1	{ Isaac Huse, Master. Carrie E. Head.
“ “ Second “ .....	15	25	34	32	94.1	{ Lillian Whitney. } Assistants. Daisy Flanders.
“ “ Third “ .....	21	21	38	34	89.2	{ Nellie C. Parker. }
“ “ Fourth “ .....	26	19	36	31	84.4	
Franklin-street Totals .....	85	82	144	132	91.6	
Lincoln-street, First Division.....	22	27	45	42	93.7	{ A. H. M. Curtis, Master. Cora B. Gilford.
“ “ Second “ .....	22	23	41	38	92.5	{ Mary A. Buzzell. } Assistants. Etta L. Stearns.
“ “ Third “ .....	18	23	38	35	92.5	{ Lillian F. Crowther. }
“ “ Fourth “ .....	20	25	36	32		
Lincoln-street Totals .....	82	98	160	147	91.8	

Ash-street, First Division .....	23	30	49	46	93.4	{ Edgar D. Cass, Master. Amelia L. Graupner. Emma L. McLaren. Belle R. Daniels. Emma J. Cooper. Majorie S. Woodbury. }                     Assistants.
“ Second “ .....	23	29	50	47	94.8	
“ Second and Third Division “ .....	23	22	42	45	93.5	
“ Third and Fourth “ .....	23	22	41	37	91.1	
“ Fourth Division .....	19	33	42	39	92.9	
Ash-street Totals .....	111	136	227	211	92.9	
Varney, First Division .....	29	27	52	51	97.7	{ George Winch, Master. M. Harriet Williamson. E. Maria Dickey. Ellen E. McKean. Jennie V. Williamson. }                     Assistants.
“ Second “ .....	22	27	45	43	95.9	
“ Third “ .....	20	21	41	40	96.1	
“ Fourth “ .....	19	19	38	35	95.6	
Varney Totals .....	90	94	174	169	97.1	
Webster-street, First Division .....	21	26	45	43	94.7	{ John Gault, Master. Alice M. Lamprey. Nettie S. Baker. Jennie Russell. Eva F. Tuson. }                     Assistants.
“ Second “ .....	22	23	41	39	94.2	
“ Third “ .....	18	14	28	27	95.0	
“ Fourth “ .....	22	15	31	29	93.3	
Webster-street Totals .....	83	78	145	138	95.1	
Bakersville, First and Second Divisions .....	22	21	37	36	96.1	{ Lizzie A. Burns, Principal. Lella A. Brooks. Jennie F. McGrath, Assistant.
“ Third and Fourth “ .....	21	16	36	34	94.0	
Bakersville Totals .....	43	37	73	70	95.8	
Hallsville, First Division .....	31	10	36	35	95.9	{ William H. Huse, Master. Millicent S. Morse Olive A. Rowe. Flora M. Walker. }                     Assistants.
“ Second “ .....	18	24	40	39	96.2	
“ Third and Fourth Divisions .....	16	26	41	38	93.9	
Hallsville Totals .....	65	60	117	112	95.7	
Rimmon, First and Second Divisions .....	3	2	7	6	85.7	{ Percy N. Folsom, Master. Blanche E. Hicken, Assistant.
“ Third and Fourth “ .....	7	8	20	19	93.3	
Rimmon Totals .....	10	10	27	25	92.5	

## ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.		* Whole number belonging.			Average membership.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
		Boys.	Girls.					
<b>Wilson, First and Second Divisions.</b> .....								
" Third Division		17	17	33	32	95.8	{ Barbara B. Joy, Principal. Mary E. McLaren. Helen Haskell. } Assistants. Harriet H. Richardson.	
" Fourth "		25	18	39	37	95.5		
Wilson Totals.		61	63	113	106	93.8		
<b>Parker, Third Division.</b> .....								
" Fourth "		14	21	29	28	96.9	Mary E. Moulton. Mary L. Ayer.	
		23	20	36	34	95.6		
<b>Parker Totals</b> .....								
		37	41	65	62	95.4		
<b>Straw, Second and Third Divisions.</b> .....								
" Fourth Division		13	19	28	27	94.8	Alta C. Willard. Ada B. Morse.	
		13	13	31	29	93.6		
<b>Straw Totals</b> .....								
		26	32	59	56	93.7		
<b>Main-street, Fourth Division</b> .....								
Amoskeag, Mixed Grammar		19	16	37	35	94.2	Mary W. Mitchell. Blanche L. Bacheider. Alice C. Taggart. Gertrude Pyne, Assistant for ½ day for 1 term.	
		18	23	34	32	95.3		
Goffe's Falls, Mixed Grammar		12	14	26	25	96.3		
<b>Grammar Schools Totals</b> .....								
		742	784	1,401	1,320	94.2		
<b>MIDDLE SCHOOLS</b>								
<b>Franklin-street, Mixed</b> .....								
Lincoln-street, Higher		23	15	28	25	88.3	Mary T. Morrow. J. Elizabeth Cate. Bertha A. Allen. Alice E. Good. May F. Nutt. Jennie V. Williamson. Mary J. Walsh. Jean Gillan. Mary L. Heath. Augusta S. Downs.	
" Lower		24	28	41	37	89.3		
Ash-street, Higher		16	23	31	29	92.6		
" Lower		13	34	41	38	92.9		
Varney, Higher		21	13	32	31	91.2		
" Lower		23	19	38	37	96.4		
Webster-street, Higher		19	23	39	38	96.5		
Bakersville, Higher		30	13	28	27	95.9		
" Lower		20	21	33	31	94.3		
		21	26	40	37	92.1		



Hallsville, Mixed.....	24	29	45	41	32 1	Mae L. Lovejoy.
" " Higher and Lower.....	26	29	51	48	94 1	Ina E. Tuttle.
Rimmon, Higher.....	25	15	37	34	91 6	Mary E. Bulman.
" " Lower.....	24	27	34	31	91 8	Isabel Barlow.
Wilson, Higher.....	27	18	42	40	95 4	Florence Richardson.
" " Lower.....	22	26	36	33	91 7	Elizabeth H. Callaghan.
Parker, Higher.....	18	20	38	36	97 7	Blanche M. Folsom.
" " Lower.....	16	15	31	30	96 4	Gertrude Mitchell.
Straw, Higher.....	19	19	37	34	93 3	Gertrude H. Brooks.
" " Lower.....	17	22	33	31	89 1	Laura M. Gould.
Spring-street, Mixed.....	16	14	29	28	95 8	Annabel Emerson.
Pearl-street, Higher.....	16	14	27	26	95 0	Mary G. Tynan.
" " Lower.....	16	12	25	23	92 7	Neille M. Smith.
Chandler, Higher.....	24	10	32	30	94 1	Hellen Morison.
" " Lower.....	27	12	36	34	93 3	Hattie S. Tuttle.
Merrimack-street, Lower.....	13	14	41	34	82 5	{ Sarah Rogers, Principal.
" " Higher.....	14	21	37	35	93 5	{ Nellie Dunnington, Assistant 2 terms.
" " Lower.....	22	28	48	45	93 9	{ Hattie O. Willard.
Amoskeag, Mixed.....	17	23	36	34	94 1	{ Minnie Sturtevant.
Goffe's Falls, Mixed.....	17	15	28	26	92 9	{ Harriet Varney, substitute 2 terms.
						{ Edna S. Merrill.
						{ Edith A. Murphy.
MIDDLE SCHOOLS TOTALS.....	610	598	1,074	1,001	93 2	
PRIMARY SCHOOLS.						
Franklin-street, Higher.....	15	25	33	29	88 5	Josephine L. Riddle.
" " Mixed.....	25	14	30	26	87 2	Grace M. Whittemore.
" " Lower.....	36	32	38	35	92 2	Alice E. Walsh.
Lincoln-street, Higher.....	28	24	40	38	95 2	Theodora Richardson.
" " Lower.....	28	23	42	39	92 0	Amy E. Davison.
Ash-street, Mixed.....	21	26	39	36	91 1	Bertha A. Young.
Varney, Higher.....	18	12	37	35	93 5	Bessie F. Leckie.
" " Lower.....	36	32	33	29	88 7	Annie E. Walsh.
Webster-street, Higher.....	20	17	33	32	96 8	Marcia M. Moore.
" " Mixed.....	16	21	39	37	94 3	Agnes M. Woodbury.
" " Lower.....	24	30	35	32	90 4	Sarah M. McKelvie.
Bakersville, Higher.....	14	30	37	34	90 9	Bessie J. Bartlett.
" " Lower.....	30	24	44	40	91 8	Kathryn D. McKeon.
Hallsville, Higher.....	30	25	48	44	92 8	Bertha L. Kemp.
" " Lower.....	45	33	66	60	90 9	{ Martha J. Kennedy.
" " Lower.....	48	31	65	55	84 9	{ Vivian Mathews.
Rimmon, Higher.....	21	18	30	29	96 6	{ Annie R. Corson.
" " Lower.....	19	15	26	24	92 1	{ Ethel A. Nicholson.
Wilson, Higher.....	22	23	40	38	95 1	Katherine A. Frain.
" " Lower.....	31	21	49	46	94 4	M. Eunice Willard.
" " Lower.....	17	3	43	40	92 9	Bertha V. Franks.
						Florence L. Abbott.
						Blanche L. Bryant.

## ATTENDANCE UPON THE VARIOUS DAY SCHOOLS—Continued.

SCHOOLS.	*Whole number belonging.		Average membership.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Parker, Higher .....	25	20	43	41	94.9	Eda M. Barr.
" Lower.....	14	26	38	35	92.3	Alice B. Morrill.
" Lower.....	25	32	46	41	90.3	Maudie E. Winegar.
Straw, Higher.....	27	20	39	36	92.2	Nellie M. James.
" Lower.....	16	24	34	32	93.8	Florence H. Moore.
" Lower.....	28	29	43	40	93.8	Edith M. Stebbins.
Spring-street, Higher.....	16	18	32	31	98.6	Helen F. Lyons.
" Lower.....	33	21	35	32	92.4	Mary A. Brennan.
" Lower.....	44	36	45	41	91.9	Sarah B. Dunbar.
Merrimack-street, Higher.....	30	27	43	35	79.9	{ Sarah Rogers, Principal.
" Lower.....	25	31	44	36	81.0	{ Nellie F. Dunnington, Assistant 2 terms.
" Lower.....	38	27	39	31	80.5	{ Elizabeth F. Walsh.
Main-street, Higher.....	26	22	37	35	93.9	{ Annie Simons, substitute 2 terms.
" Higher.....	24	28	43	41	94.5	Kate T. Clarke.
" Lower.....	21	26	47	44	93.0	Mary H. O'Dowd.
" Lower.....	28	14	43	40	93.6	Myrtle R. Slager.
" Lower.....	26	32	38	36	93.9	Clara V. Clement.
Pearl-street, Higher.....	19	11	37	35	93.3	Florence Abbott.
" Lower.....	33	24	42	39	92.6	{ Nellie F. Dunnington.
Chandler, Higher.....	20	25	39	36	91.5	{ Florence Prescott, substitute 2 terms.
" Higher.....	19	21	37	33	89.2	{ Edie B. Shand.
" Lower.....	27	11	37	35	94.1	{ Amy K. Northrup.
" Lower.....	22	31	35	32	90.2	{ Agnes Shay.
Highland, Mixed.....	20	21	37	33	89.6	{ Lura K. Kimpton, substitute.
Amoskeag, Higher.....	23	22	37	33	92.9	{ Hulda C. Graupner.
" Lower.....	19	20	31	27	83.0	{ Laurette McKendree.
Goffe's Falls, Mixed.....	1182	1134	1892	1732	91.5	{ Bertha H. Marden, 2 terms.
Primary Schools Totals.....	14	19	31	29	93.7	{ May L. Woodcock.
PARTIALLY GRADED SCHOOL.						{ Jennie R. McLaughlin.
Highland.....						{ Annabel D. Wyman.
						{ Gertrude Pyne, Assistant for 1 day for 1 term.



## DAY SCHOOLS.

*Summary of attendance upon the several grades of public day schools for the year 1907-1908.*

GRADES.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High .....	242	305	529	508	96.1
Grammar.....	742	784	1,401	1,320	94.2
Middle.....	610	598	1,074	1,001	93.2
Primary.....	1,182	1,134	1,892	1,732	91.5
Partially graded.....	14	19	31	29	93.7
Ungraded.....	91	66	127	109	85.8
Kindergarten.....	83	74	109	96	88.1
Totals, 1908.....	2,964	2,980	5,163	4,795	92.9
Totals, 1907.....	2,980	2,994	4,995	4,589	91.9

## EVENING SCHOOLS.

*Summary of attendance upon the several grades of public evening schools for the year 1907-1908.*

SCHOOLS.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Spring-street.....	377	.....	293	171	52.6
Franklin-street.....	.....	67	56	52	94.1
Rimmon.....	52	29	64	57	83.3
Drawing schools { Mechanical.. } { Architectural }	54	.....	43	35	82.3
Totals, 1908.....	483	96	456	315	69.0
Totals, 1907.....	411	131	367	305	83.1

*Evening School Teachers.*

John J. McAllister, principal of Spring-street school, for boys.

Assistants.—Lawrence A. O'Connor, Joseph Tonery, Ralph Hadley, John M. Lyons, Minnie Sullivan, Eva B. Larivee, Lizzie Doherty, Rita Grendell, Mrs. George W. Prescott, Susie C. Fogg.

Honorie J. Crough, principal of Franklin-street school, for girls.

Assistants.—Maggie Linen, Carlena Savory, Susie G. Woodman, and Geneive B. Wilson.

Carroll S. King, principal of Rimmon school, for both sexes.

Assistants.—Frank J. Kearns, Edwin M. Rogers, Myra Moore, Adelia Murphy, and Madge Hall.

*Evening Drawing Teachers.*

John M. Kendall and Henry W. Allen.

## TRAINING SCHOOL.

Graduated.		Entered.	
Ella M. Chapman,	Sept., '06.	Delia B. Clarke,	Sept., '07.
Jennie M. Landers,	" "	Rebecca Grant,	" "
Lauretta B. Sawtelle,	" "	Bertha Hersey,	" "
Mary S. White,	" "	Lulu E. Kean,	" "
		Nettie Rennie,	" "

## GENERAL SUMMARY.

*The following table presents the main features of interest pertaining to the attendance upon the public schools for the last seven years. Similar tables may be found in reports for 1896 and 1901.*

YEARS.	Average number of schools.	Average number of teachers employed.*	Enrolled in public day schools.	Average membership.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.†	Entered high school.‡	Graduated from high school.	Average number belonging to high school.
1900.....	126	135	5,462	4,388	3,998	91.8	179	225	214	152	72	380
1901.....	127	137	5,808	4,552	4,127	90.5	191	189	179	137	69	379
1902.....	129	142	6,123	4,876	4,430	91.9	250	221	211	159	62	390
1903.....	130	146	6,013	4,774	4,338	90.8	196	203	183	137	65	405
1904.....	133	149	5,920	4,889	4,483	91.7	197	237	214	169	80	401
1905.....	133	150	5,841	4,817	4,412	91.6	252	247	226	168	63	423
1906.....	135	152	5,703	4,907	4,531	92.3	246	261	220	161	78	455
1907.....	139	158	5,974	4,995	4,589	91.9	305	255	226	180	78	483
1908.....	141	162	5,944	5,163	4,795	92.9	315	255	226	173	103	529

\* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ From grammar schools, parochial schools, and surrounding towns. (157 from grammar schools).



## VI. Work of Truant Officer.

DATE.	Absentees re- ported.	No. volunta- rily returned.	No. reported caused to at- tend.	No. moved out of city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
1907.							
September .....	87	11	51	5	3	17	.....
October .....	177	68	86	4	4	12	3
November .....	127	27	71	1	15	10	3
December.....	76	9	21	1	16	27	2
1908.							
January .....	141	27	42	3	41	27	1
February. ....	121	28	65	5	6	17	.....
March.....	80	44	12	3	6	15	.....
April. ....	121	46	38	7	15	15	2
May .....	180	56	37	3	5	28	1
June.....	47	7	30	3	2	5	.....
Totals.....	1,159	323	503	35	113	173	12

VI. Work of Truant Officer.—*Continued.*

DATE.	Truants not enrolled found on streets.	No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at the police station.	No. brought before the court.	Sentenced.
1907.						
September .....	7	89	121			
October .....	8	151	127			
November.....	6	197	146	1		
December .....	2	29	91			
1908.						
January .....	2	159	161			
February.....	5	145	162			
March .....	6	59	71			
April.....	10	196	127			
May.....	4	171	237			
June.....	1	60	95			
Totals.....	61	1,206	1,338	1		

## VII. Finances. 1908.

ITEMS OF ACCOUNT.	Appropriations.	Expenditures.
Repairs of schoolhouses .....	\$8,000.00	\$8,503.14
Fuel .....	11,500.00	11,477.22
Furniture and supplies....	1,500.00	1,266.73
Printing and advertising.....	350.00	401.63
Books and stationery.....	50.00	15.12
Contingent expenses.....	3,000.00	4,294.74
Care of rooms.....	8,500.00	8,693.20
Evening schools.....	1,500.00	1,634.81
Teachers' salaries.....	109,500.00	109,476.57
Evening school—mechanical drawing.....	300.00	259.12
Free text-books and apparatus.....	7,000.00	7,147.02
Manual training.....	600.00	599.37
Steam boiler for Webster-street school.....	1,000.00	995.00
Cemetery wall at Varney school.....	800.00	792.06
Addition to Hallsville school.....	18,000.00	17,944.05
Alteration of schoolhouses for purposes of fire protection.....	2,000.00	1,937.64
School bell, Amoskeag, carried from 1907....	700.00	687.86
Cost of city schools.....	\$174,300.00	\$176,125.28

## COST OF CITY SCHOOLS.

Expenditures as above specified..... \$176,125.28

*Salaries.*

Members of the school board.....	\$220.00
Clerk of board .....	150.00
Superintendent of schools.....	2,300.00
Truant officer .....	1,000.00
Total .....	\$179,795.28

*Receipts.*

Literary fund .....	\$3,578.40	
Tuition and free text-books*.....	2,058.86	
		5,637.26
Net amount raised by taxation.....		\$174,158.02

The city valuation for 1908 is \$37,658,620, and hence the rate of school tax for the year is \$174,158.02, divided by \$37,658,620, or .0046+. Increase due in great measure to erection of addition to Hallsville school. Last year the rate was .0039+.

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### VIII. School Year, 1907-1908.

Fall term of fourteen weeks opened September 3, 1907, closed December 13, 1907. Vacation of two weeks.

Winter term of twelve weeks opened December 30, 1907, closed March 20, 1908. Vacation of two weeks.

Spring term of eleven weeks opened April 6, 1908, closed June 19, 1908. Vacation of eleven weeks.

Number of school days in the year, 190.

Number of days schools were actually in session, 176.

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### IX. High School Graduation.

#### PROGRAM.

#### *Evening Prayer.*

Peace of God which knows no measure, heavenly sun-light of the soul  
Peace beyond all earthly treasure, come and all our hearts control.  
Come, Almighty, to deliver, naught shall make us then afraid,  
We will trust in Thee forever, Thou on whom our hope is stayed.

Salutatory. Dum Vivimus, Vivamus.....Alice Mary Pepin  
Chorus. The March of Progress.....*Meyerbeer*  
Class Prophecy.....Maurice Francis Devine  
Chorus. A Warrior Bold.....Adams  
Valedictory .....Henry Bailey Stevens  
Chorus. Summer Fancies [vocal waltz].....*O. Métra*  
Award of Diplomas.....Rev. J. B. Lemon  
Singing of Class Ode.  
Class Motto, Dum Vivimus, Vivamus.

\*School tax from Londonderry, Bedford, and Goffstown included.

GRADUATES.

*Girls.*

Georgia Ellen Allen.	Sadie Emma Hutchinson.
Vida Adella Alston.	Laura Margaret Keating.
Nina Melrose Annis.	Mary Christine Kirby.
Avis Ada Armstrong.	Irma Cleves Laing.
Guila A. Bean.	Marian Stebbins Lovell.
Nancy Gardner Bixby.	Hilda Lundstedt.
Alice May Brown.	Claire Ruth McDerby.
Mary Louise Bryson.	Anna B. McDonald.
Helen Mary Bullard.	Laura Emma McKenna.
Bessie R. H. Caine.	Lucille A. deMoulpied.
Mary Elizabeth Chamberlin.	Margaret W. Muir.
Helen Louise Childs.	Medora Evelyn Patten.
Helen C. Crafts.	Alice Mary Pepin.
Florence Marjorie Cross.	Olive Lillian Peterson.
Margaret Perry Dickey.	Alice Elizabeth Porter.
Marjory Eleine Drew.	Hazel Ruth Porter.
Mattie Chapman Dutton.	Mary Silas Prout.
Edith May Eastman.	Hattie Esther Read.
Minnie Loraine Esterbrooks.	Phoebe Riley.
Madeleine Fellows.	Florence Mildred Smith.
Mary Hooper Foster.	Marian Louise Smith.
Bessie Lovisa Gage.	Ruth Law Stearns.
Ethel May Grant.	Bessie Mae Sullivan.
Margaret Isabel Grant.	Mary Elizabeth Trinity.
Annie Belle Hayes.	Glenna May True.
Mae Elizabeth Hills.	Florence Rosetta Trull.
Marjorie Main Holt.	Belle Louise Twombly.
Alice Agnes Howe.	Eleanor Brooks Underwood.
Susie Adams Huff.	Marguerite Upton.

*Boys.*

John Harold Annis.	William Danforth Clark.
Walter E. Arthur	Howard Slocum Coldwell.
Milford Lang Bailey.	Francis Alger Davison.
Ralph Edmund Baker.	Frederick Davis Day.
Elmer Horace Berlund.	Maurice Francis Devine.
Carlton Bly.	Everett Frank Dowst.
Amos Franklin Brown.	Henry Dowst.
Richard Pearson Burke.	Harry Edward Doyle.
Elmer Dearborn Chapman.	Percy Stevens Eaton.
Walter Hadden Childs.	Ernest William Ferrin.
George Herbert Churchill.	Harold Edward Fife.

Chester William Flanders.  
 Norman Wallace Fradd.  
 Wilfred Eugene Grenier.  
 Vaughn David Griffin.  
 Robert B. Harvey.  
 William Francis Hayes.  
 H. Chester Holden.  
 Edward Ernest Hubbell.  
 John Henry Kennedy.  
 Arthur William Laflamme.  
 Robert Cutter Laing.  
 Chester J. Langley.

Clarence Hubert Leavitt.  
 Frank E. Lyons.  
 Jerauld Armington Manter.  
 Arthur Payson Morrill.  
 Robert Weir Mungall.  
 Claus Alfred Peterson.  
 Harry Edgecombe Pillsbury.  
 J. Reuben Piranin.  
 Randolph Riedell.  
 Henry Bailey Stevens.  
 Harold Jewell Wiggin.

## CLASS ODE.

(Written by Belle Louise Twombly.)

The gate swings open wide,  
 We stand in youth and pride,  
     A warrior band:  
 And on our blazoned shields,  
 Engraved for battle-fields,  
 Shines "while we live, let us live."

We leave the castle brave,  
 That to us training gave,  
     With loyal hearts.  
 'Twas here we learned through deed  
 Our motto and its need,  
 Then "while we live, let us live."

Before us stretches life,  
 Each path leads us to strife,  
     We know not where.  
 How can we fail or fall?  
 These words shall guide us all,  
 And "while we live, let us live."

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## X. Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY, 1908.

First prize, \$25, Carroll Lee Bryant.  
 Second prize, \$20, Pauline Lowenstam.  
 Third prize, \$10, Harold Edward Fife.  
 Fourth prize, \$5, Bertha May Harriman.



## XI. Organization, 1909.

### SCHOOL COMMITTEE.

EUGENE E. REED, 636 Somerville street,	<i>Ex Officio Chairman.</i>
JAMES B. FITCH, 735 Chestnut street,	
	<i>President Common Council, ex officio.</i>
EDWARD B. WOODBURY,	<i>Vice-Chairman of the Board.</i>
HARRY L. DAVIS,	<i>Clerk of the Board.</i>

- WARD 1. Joseph W. Abbott, 1480 Elm street.  
Sumner M. Patten, 3 Canal street.
- WARD 2. George M. Davis, 156 Orange street.  
Allan M. Wilson, 97 Salmon street.
- WARD 3. Frank L. Downs, 108 Ash street.  
Thomas Chalmers, 590 Beech street.
- WARD 4. William A. Phinney, 450 Manchester street.  
Edward P. Morrill, 296 Laurel street.
- WARD 5. John F. Lee, 224 Central street.  
Joseph P. Devine, 267 Chestnut street.
- WARD 6. Harry L. Davis, 552 East Spruce street.  
G. Waldo Browne, 329 Massabesic street.
- WARD 7. Edward B. Woodbury, 1 Pleasant street.  
Albert W. Thompson, Franklin, corner West Merrimack St.
- WARD 8. Walter B. Mitchell, 178 Milford street.  
Frank A. Cadwell, 142 Douglas street.
- WARD 9. Aime Martel, 350 Bartlett street.  
Antoine Menard, 270 Coolidge avenue.
- WARD 10. Francis X. Lyons, Goffe's Falls.  
John H. Rice, 191 Jewett street.

### SUPERINTENDENT OF PUBLIC INSTRUCTION.

CHARLES W. BICKFORD.

Residence, 1077 Union street. Office, City Hall building.

### SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

Residence, 277 Laurel street.

### TRUANT OFFICER.

CURTIS W. DAVIS.

Residence, 849 Chestnut street.

## STANDING COMMITTEES.

*Finance.*—Mayor Reed, Messrs. Fitch, H. L. Davis, Woodbury, and Cadwell.

*Text-Books.*—Messrs. Wilson, Mitchell, and Woodbury.

*Music.*—Messrs. Lyons, Browne, and Abbott.

*Drawing.*—Messrs. Thompson, Patten, and Martel.

*Manual Training.*—Messrs. Rice, Thompson, and Cadwell.

*Examination of Teachers.*—Messrs. Chalmers, Lyons, and G. M. Davis.

*Fuel.*—Mr. Phinney, Mayor Reed, Messrs. Fitch, Lee, and Menard.

*Repairs.*—Messrs. Rice, Downs, and Thompson.

*Attendance.*—Messrs. Morrill, Abbott, and Wilson.

*Health.*—Messrs. G. M. Davis, Mitchell, and Devine.

## SUBCOMMITTEES.

*High.*—Messrs. Wilson, Downs, Mitchell, G. M. Davis, and Chalmers.

*Amoskeag.*—Messrs. Martel, Wilson, and G. M. Davis.

*Ash-street and Webster's Mills.*—Messrs. Downs, Thompson, and Devine.

*Bakersville and Mosquito Pond.*—Messrs. Lyons, Phinney, and Patten.

*Chandler.*—Messrs. Lee, Woodbury, and Cadwell.

*Franklin-street.*—Messrs. Woodbury, H. L. Davis, and Lee.

*Goffe's Falls and Highland.*—Messrs. Devine, Cadwell, and Lyons.

*Hallsville and Harvey.*—Messrs. H. L. Davis, Rice, and Menard.

*Lincoln-street and Youngsville.*—Messrs. G. M. Davis, Lee, and Rice.

*Main-street.*—Messrs. Mitchell, Chalmers, and Browne.

*Merrimack-street.*—Messrs. Abbott, Devine, and Phinney.

*Parker.*—Messrs. Chalmers, G. M. Davis, and Martel.

*Pearl-street.*—Messrs. Morrill, Menard, and Downs.

*Rimmon.*—Messrs. Menard, Abbott, and Wilson.

*Spring-street.*—Messrs. Patten, Browne, and Woodbury.

*Straw.*—Messrs. Thompson, Patten, and Chalmers.

*Varney.*—Messrs. Cadwell, Lyons, and Abbott.

*Webster-street and Stark.*—Messrs. Phinney, Mitchell, and Thompson.

*Wilson.*—Messrs. Browne, Martel, and Morrill.

*Kindergartens.*—Messrs. Rice, Downs, and Mitchell.

*Evening Schools.*—Messrs. Lee, Morrill, and H. L. Davis.

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## XII. List of Teachers.

(Giving the name, school, grade of school, and residence of each teacher.)

## HIGH SCHOOL.—BEECH STREET.

Master. George H. Libby, 581 Chestnut street.

Submaster. George I. Hopkins, 203 Walnut street.

Assistants. Harry N. McLaren, 648 Hall street.

Assistants. Charles F. Bates, 595 Pine street.  
 Allan E. Herrick, 91 Russell street.  
 Marion D. Ames, 593 Union street.  
 Mary J. Wellington, The Delta.  
 Annie W. Colby, 307 Hanover street.  
 Mary H. Dowd, 43 High street.  
 Winona M. Martin, 435 Hanover street.  
 Elsie D. Fairbanks, 527 Hanover street.  
 Annie M. Vose, 689 Union street.  
 Edith M. Pierce, Goffstown, N. H.  
 Bertha A. Blanchet, 467 Hanover street.  
 Helen I. Buck, 324 Myrtle street.  
 Elizabeth L. Neal, 310 Hanover street.  
 Cora J. Russell, 93 Myrtle street.  
 Oriola E. Martin, 435 Hanover street.  
 Bertha V. Healey, 304 Central street.  
 Clerk. N. Josephine Vance, 345 Lake avenue.

#### AMOSKEAG SCHOOL.

##### *Grammar Classes.*

Principal. Blanche L. Batchelder, 276 Orange street.  
 Middle. Edna L. Merrill, 375 Concord street.  
 Higher Primary. Bertha L. Marden, 307 Walnut street.  
 Lower Primary. May L. Woodcock, 494 Hall street.

#### ASH-STREET SCHOOL.

##### *Second Floor.—Grammar Grades.*

Master. Edgar D. Cass, 326 Amherst street.  
 Master's Assistant. Amelia L. Graupner, 215 Walnut street.  
 Assistants. Emma L. McLaren (2d division), 351 Bridge street.  
 Belle R. Daniels (3d division), 586 Beech street.  
 Emma J. Cooper (4th division), 370 Hanover street.

##### *First Floor.—Lower Grades.*

Fourth Grammar. Marjorie S. Woodbury, 1 Pleasant street.  
 Mixed Middle. Alice E. Good, 533 Beech street.  
 Higher Primary. May F. Nutt, 604 Beech street.  
 Lower Primary. Hulda C. Graupner, 215 Walnut street.

#### BAKERSVILLE SCHOOL.

##### *Second Floor.—Mixed Grades.*

Principal. Elizabeth A. Burns (Grammar classes), 214 Calef road.  
 Assistants. Lelia A. Brooks, 23 Cheney place.  
 Jennie F. McGrath (4th Grammar)\*, 350 Auburn street.

Mixed Middle.\* Mary L. Heath, 97 Bridge street.  
 Higher Primary. Augusta S. Downs, 397 Merrimack street.

*First Floor.—Lower Grades.*

Mixed Primary. Bessie J. Bartlett, 39 West Merrimack street.  
 Lower Primary. Kathryn D. McKeon, 279 East Spruce street.

CHANDLER SCHOOL.

*First Floor.*

Principal. Hellen Morison (4th division), 332 East Spruce street.  
 Lower Primary. Jennie R. McLaughlin, 196 Cedar street.  
 Lower Primary. Helen N. Bly, 722 Beech street.

*Kindergarten.*

Principal. Mabel B. Currier, 225 Bridge street.  
 Assistant. Jenette M. Bartlett, 250 Harrison street.

*Second Floor.*

Higher Middle. Harriet S. Tuttle, 154 Lowell street.  
 Lower Middle. Ede B. Shand, 317 East High street.  
 Higher Primary. Amy K. Northrup, 454 Merrimack street.

FRANKLIN-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. Isaac Huse, 10 Hayes avenue.  
 Master's Assistant. Caroline E. Head, 11 Harrison street.  
 Assistants. Lillian Whitney (2d division), R. F. D. No. 6.  
               Daisy E. Flanders (3d division), 714 Beech street.  
               Josephine E. Paige (4th division) 97 Ash street.

*First Floor.—Lower Grades.*

Higher Middle. Mary T. Morrow, 402 Manchester street.  
 Lower Middle. Josephine L. Riddle, 581 Chestnut street.  
 Higher Primary. Grace M. Whittemore, 11 Nashua street.  
 Lower Primary. Ida L. Montgomery, 306 McGregor street.

GOFFE'S FALLS SCHOOL.

Principal. Alice C. Taggart (Grammar), 46 Brooklyn avenue.  
 Assistant, A. M. Gertrude N. Pyne, 434 Union street.  
 Middle Grades. Edith A. Murphy, 162 Winter street.  
 Primary Grades. Lauretta B. Sawtelle, 651 Summer street.

\*Third floor.

## HALLSVILLE SCHOOL.

*Second Floor.—Grammar Grades.*

Master. William H. Huse, 97 Mammoth road.

Master's Assistant. Millicent S. Morse, 963 Valley street.

Assistants. Olive A. Rowe (2d division), 118 Walnut street.

Mary L. Mooar (3d division), 280 Taylor street.

Mae L. Lovejoy (4th division), 9 Elm street.

*First Floor.—Lower Grades.*

Higher Middle. Ina E. Tuttle, 174 Cypress street.

Lower Middle. Bertha L. Kemp, 40 Water street.

Higher Primary. Martha J. Kennedy, 319 Auburn street.

Higher Primary. Vivian E. Matthews, 236 J. Hall road.

Lower Primary. Alice B. Morrill, 296 Laurel street.

Lower Primary. Annie R. Corson, 36 Ray street.

## HIGHLAND SCHOOL.

Principal. Annabel D. Wyman (Grammar and Middle), 685 Hanover street.

Assistant, P. M. Gertrude N. Pyne, 434 Union street.

Laurette McKendree (Primary grades), 21 South Elm street.

## LINCOLN-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. Alvah H. M. Curtis, 329 Orange street.

Master's Assistant. Cora B. Gilford, 336 Merrimack street.

Substitute. Elizabeth E. Robertson, 151 North, Concord, N. H.

Assistants. B. Elizabeth Crowell, R. F. D. No. 5.

Lillian F. Crowther (3d division), 376 Manchester street.

M. Emma Roberts (4th division), 323 Hanover street.

*First Floor.—Lower Grades.*

Higher Middle. J. Elizabeth Cate, 502 Merrimack street.

Lower Middle. Katharine A. Frain, 262 Auburn street.

Higher Primary. Theodora Richardson, 481 Lincoln street.

Lower Primary. Amy E. Davison, 331 Hanover street.

## MAIN-STREET SCHOOL.

*Second Floor.—Middle Grades.*

Principal. Mary W. Mitchell (4th Grammar division), 341 Hanover street.

Higher Middle. Hattie O. Willand, 16 Monroe street.

Lower Middle. M. Minnie Sturtevant, 128 Milford street.

Higher Primary. Elizabeth F. Walsh, 166 North Main street.

*First Floor.—Primary Grades.*

Higher Primary. Kate T. Clarke, 313 Granite street.  
Lower Primary. Mary H. O'Dowd, 703 Pine street.  
Lower Primary. Myrtle V. Slager, R. F. D. No. 6.  
Lower Primary. Clara V. Clement, 104 Parker street.

## MERRIMACK-STREET SCHOOL.

Principal. Nellie F. Dunnington (Higher Primary), 367 Lake avenue.  
Higher Primary. Ella M. Chapman, 36 Vinton street.  
Lower Primary. Mary A. Brennan, 487 Candia road.  
Lower Primary. Clydie M. Flanders, 452 Pine street.

## PARKER SCHOOL.

*First Floor.*

Principal. Mary E. Moulton (Grammar), 265 Milford street.  
Lower Primary. Grace M. Brown, Gold street.  
Lower Primary. Maude E. Winegar, 186 Bowman street.

*Kindergarten.*

Principal. Isabelle Houliston, 81 Parker street.  
Assistant. Ethel M. Jones, 144 Bowman street.

*Second Floor.*

Fourth Division. Mary L. Ayer, 51 Erie street.  
Higher Middle. Blanche M. Folsom, 47 Dover street.  
Mixed Middle. Gertrude Mitchell, 178 Milford street.  
Higher Primary. Eda M. Barr, 16 C street.

## PEARL-STREET SCHOOL.

Principal. Mary G. Tynan (Lower Middle), 235 Pearl street.  
Higher Primary. Nellie M. Smith, 1327 Hanover street.  
Lower Primary. Florence Abbott, 333 East High street.  
Lower Primary. Alice E. Walsh, 166 North Main street.

## RIMMON SCHOOL.

*Second Floor.—Mixed Grades.*

Principal. Harrison N. Bowen (1st and 2d divisions), 294 Granite street.  
Assistant. Blanche E. Hicken (3d and 4th divisions), West Salmon.  
Mixed Middle. Mary E. Bulman, 600 Beech street.

*First Floor.—Primary Grades.*

Lower Middle. Isabel Barlow, 1448 Elm street.  
Higher Primary. M. Eunice Willand, 16 Monroe street.  
Lower Primary. Mary S. White, 70 Kelly street.



SPRING-STREET SCHOOL.

*Second Floor.—Mixed Grades.*

Principal. Annabel Emerson (Middle grades), R. F. D. No. 2.  
Higher Primary. Helen F. Lyons, 270 Lake avenue.

*First Floor.—Mixed Grades.*

Lower Primary. Jennie M. Landers, 924 Clay street.  
Lower Primary. Sarah B. Dunbar, 538 Lake avenue.

*Kindergarten.*

Principal. Grace M. Carr, 347 Bridge street.  
Assistant. Marion Ryan, 883 Union street.

STRAW SCHOOL.

*First Floor.*

Principal. Alta C. Willand (3d Grammar division), 16 Monroe street.  
Higher Primary. Ida M. Crowther, 376 Manchester street.  
Lower Primary. Florence H. Moore, 841 Union street.  
Lower Primary. Edith M. Stebbins, 593 Beech street.

*Second Floor.*

Grammar. Ada B. Morse (4th division), 401 Central street.  
Higher Middle. Gertrude H. Brooks, 435 Hanover street.  
Lower Middle. Laura M. Gould, 757 Chestnut street.

VARNEY SCHOOL.

*Second Floor.—Grammar Grades.*

Master. George Winch, 804 Beech street.  
Master's Assistant. M. Harriet Williamson, 31 Carroll street.  
Assistant. Esther M. Dickey (2d division), 38 Avon street.

*First Floor.—Mixed Grades.*

Assistants. Ellen E. McKean (3d division), 33 Ash street.  
Higher Middle. Jennie V. Williamson, 31 Carroll street.  
Lower Middle. Mary J. Walsh, 166 North Main street.  
Higher Primary. Gertrude Adams, 304 Hanover street.  
Lower Primary. S. Grace Crosby, 316 South Main street.  
Lower Primary. Annie E. Walsh, 166 North Main street.

## WEBSTER-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. John Gault, 700 Pine street.

Master's Assistant. Alice M. Lamprey, 96 Blodget street.

Assistants. Nettie S. Baker (2d division), 449 Beech street.

Jennie Russell (3d division, North River road.

Eva F. Tuson (4th division), 36 Appleton street.

*First Floor.—Lower Grades.*

Higher Middle. Jean Gillan, 7 West Appleton street.

Lower Middle. Marcia M. Moore, 841 Union street.

Higher Primary. Agnes M. Woodbury, 1 Pleasant street.

Lower Primary. Sarah M. McKelvie, 326 Laurel street.

## WILSON SCHOOL.

*First Floor.*

Principal. Barbara B. Joy (1st and 2d divisions), 481 Hanover street.

Assistant. Mary E. McLaren, 351 Bridge street.

Higher Primary. Bertha V. Franks, 9 West Merrimack street.

Lower Primary. Florence L. Abbott, 356 Laurel street.

Lower Primary. Blanche L. Bryant, 382 Central street.

*Second Floor.*

Grammar (3d Div.). L. Helen Haskell, 211 Bridge street.

Grammar (4th Div.). Harriet H. Richardson, 481 Lincoln street.

Higher Middle. Florence Richardson, 481 Lincoln street.

Lower Middle. Elizabeth H. Callaghan, 1017 Hayward street.

## UNGRADED SCHOOLS.

No. 1. Stark.—Vacancy.

2. Harvey.—Emma J. Ela, 585 Beech street.

3. Youngsville.—Mary E. Stevens, 341 Hanover street.

Blanche L. Corning, 521 Lake avenue.

4. Webster's Mills.—Mary E. Walker, 516 Beech street.

5. Mosquito Pond. Marion F. Partridge, 73 Sagamore street.

## LOWELL-STREET SCHOOL.

*Manual Training.*

Principal. Fred E. Browne, 19 South Spring street, Concord, N. H.

Assistants. Arthur W. French, 378 Belmont street.

Guido L. Carpi, 15 Albert street.

SPECIAL TEACHERS.

Music. A. J. Abbott, 892 Beech street.  
Maude E. Brown, 18 Brook street.  
Drawing. J. Warren Thyng, 92 Arlington street.  
Annie W. Patten, 254 Laurel street.

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JANITORS.

*High School.*

Charles F. Jack, 55 West Merrimack street.

*Engineer.*

George H. Jack, 53 Ash street.

*Amoskeag School.*

Charles H. Corey, 49 Pennacook street.

*Ash and Pearl-street Schools.*

Asa M. Smith, 91 Harrison street.

*Bakersville School.*

Edwin N. Baker, 10 Brown avenue.

*Chandler and Lincoln-street Schools.*

Charles A. Underhill, 226 Merrimack street.

*Franklin-street and Merrimack-street Schools.*

John S. Avery, 404 Merrimack street.

*Goffe's Falls School.*

Louis Hueber, 2966 Brown avenue.

*Hallsville School.*

William H. Newry, 516 Lake avenue.

*Highland School.*

Marshall N. Badger, 600 South Beech street.

*Main-street and Rimmon Schools.*

William F. Henderson, 153 Bowman street.

*Parker and Varney Schools.*

Joseph H. Buffum, 63 Boynton street.

*Spring-street and Lowell-street Schools.*

John Cedar, 91 Blodget street.

*Straw and Webster-street Schools.*

William J. Powers, 30 Ray street.

*Wilson School.*

Dennis Sullivan, 262 Green street.

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**XIII. School Year.—1908-1909.**

Fall term opened September 8, 1908, closed December 18, 1908. Vacation of two weeks.

Winter term of twelve weeks opened January 4, 1909, closed March 26, 1909. Vacation of two weeks.

Spring term opened April 12, 1909, closes June 25, 1909. Vacation of ten weeks.

Fall term opens September 7, 1909. Continues fifteen weeks, closes December 17, 1909.

REPORT  
OF THE  
BOARD OF HEALTH.





# REPORT OF THE BOARD OF HEALTH.

*To His Honor the Mayor:*

The Board of Health submits the following report for the year 1908:

William J. Starr was reappointed by the mayor to succeed himself, and at the annual meeting of the board, held the first Monday in February, 1908, Dr. J. E. A. Lanouette was reelected president, and William K. Robbins clerk of the board.

The appropriation allowed by the city council for carrying on the work of the department during the year was \$11,500.

The expenditures have been as follows:

## OFFICE EXPENSES.

Salaries .....	\$600.00
Labor .....	3,321.00
Office furniture .....	14.75
Printing, postage, and stationery .....	222.72
Telephone service .....	81.25
Express .....	11.00
Disinfectants .....	188.95
Antitoxin .....	2,177.37
Diphtheria examinations .....	119.00
Quarantined families .....	300.49
Carriage hire and carfares .....	139.07
Supplies for laboratory .....	70.37
Milk samples .....	13.76
Gas .....	11.11
Incidentals .....	40.05
	<hr/>
	\$7,310.89

## ISOLATION HOSPITAL.

Salary of matron .....	\$300.00
Fuel .....	453.88
Electric lighting .....	88.09
Board of patients .....	2,511.45
Nursing .....	2,555.00
Telephone service .....	54.00
Water .....	41.70
Hacks to hospital .....	477.00
Repairs and improvements .....	583.03

Furniture and supplies .....	\$570.15
Insurance .....	90.00
	<hr/>
	\$7,724.35

## SMALLPOX HOSPITAL.

Salary of matron .....	\$360.00
Fuel .....	26.55
Telephone service .....	25.00
Water .....	7.52
Lighting .....	7.86
Supplies .....	8.80
Medical attendance .....	3.00
Vaccination .....	60.65
	<hr/>
	\$499.33
Office expenses .....	\$7,310.89
Isolation hospital .....	7,724.35
Smallpox hospital .....	499.33
	<hr/>
Total .....	\$15,534.57
Amount turned in from milk license fees.....	\$371.00
Amount turned in from board of patients at hospital....	469.07

Owing to the great demands upon the board by the unusual prevalence of diphtheria, the appropriation seemed within about a month of being exhausted and on August 18 the mayor was notified that additional funds would be needed to complete the year, and he assured the board that the work must continue and that funds would be provided to pay the bills, which was done, and it became necessary to overdraw the appropriation as above indicated.

This additional expense was due entirely to diphtheria, being expended for board, nursing, antitoxin, and medicines, and could in no possible way have been estimated at the time the appropriation was made up.

The general office expenses have been about the same as for several years past, as have those of the smallpox hospital.

The expense of maintaining the Isolation hospital was slightly raised by increased compensation of the matron, but the great increase was for board and nursing of patients.

## MEETINGS.

During the year the regular weekly meetings have been held as usual on Tuesday evenings. This custom of the board has become so well known that citizens often avail themselves of the opportunity to bring before the full board any complaint or business which they wish to have adjusted.

Thirty-nine regular meetings and ten special meetings for trips of inspection and such business as required immediate attention, have been held.

#### BACTERIOLOGICAL LABORATORY.

The work of this department was increased during the year on account of the unusual prevalence of diphtheria, and also because so many physicians now depend upon these examinations in determining their diagnosis.

Of the three hundred and eighty-nine examinations made during the year, one hundred and forty-four were positive, or true diphtheria, and two hundred and forty-five were negative.

One hundred and nine of the negative results were for the discharge of patients.

These cultures are usually sent to the State laboratory in Concord, but when necessary are made by Dr. A. G. Straw in our own laboratory.

The delay in obtaining results when cultures are sent to Concord often causes much inconvenience and there has been quite a demand on the part of physicians for a bacteriological branch of the state laboratory in this city.

#### PLUMBING INSPECTION.

This has been an average year for the plumbing business; not as much new work as last year, but more repairs and alterations have been made in tenement property and business blocks.

The corporation tenements are being much improved by putting in a good bathroom in each tenement, located in a well-lighted and ventilated room, and all being done in a thorough and workmanlike manner.

As there are several hundred of these corporation tenements this means an immense amount of work and several years will probably elapse before the last ones are completed.

#### MILK INSPECTION.

It has not been possible to do as much in the inspection of milk as the board desired, owing to scarcity of funds and the fact that the health inspectors were kept so busy attending to the numerous cases of diphtheria that they had no time to take samples or inspect premises.

Much of the time they worked Sundays and holidays as well as some evenings, so that we could not ask them to be out during the latter part of the night to collect samples from milk carts.

It is hoped that a small addition to our appropriation for labor will enable the board to collect a larger number of samples and inspect a considerable number of milk farms, and make a rating of conditions under which milk for the city supply is produced.

During the year a set of rules for the care and handling of milk was established by this board and approved by the board of mayor and aldermen, thereby giving them the effect of law.

This approval came so late in the season that we did not get the benefit that we have a right to expect in future from these rules, which are as follows:

#### SANITARY MILK RULES.

#### Regulations of the Board of Health for the Sale and Distribution of Milk in the City of Manchester.

Rule No. 1. No milk shall be sold, offered for sale, or distributed in the city of Manchester which was drawn from cows within fifteen days before, or five days after parturition.

Rule No. 2. No milk for sale or distribution shall be stored, cooled, strained, or mixed in any barn or room which is occupied by horses, cows, or other animals, unless the dairy room or storage room is separated from other parts of the building, and provision made for the exclusion of outside dust and flies, to the satisfaction of the Board of Health.

Rule No. 3. Milk, cream, or skim milk kept for sale in any shop, store, bakery, restaurant, market or establishment, shall be stored and kept in a covered box, cooler or refrigerator, and the temperature shall at all times be not more than 55 degrees Fahrenheit, and no milk shall be allowed to stand outside of such box, cooler or refrigerator except while a sale is being made, and a paid-up license to sell milk, skim milk, or cream, granted by the Board of Health, shall be posted in a conspicuous place.

Rule No. 4. All wagons, sleighs or other vehicles used in conveying milk, cream, or skim milk for distribution or sale or collecting from raisers, shall be kept in a cleanly condition, free from odors, and swill or any other refuse or decaying vegetable or animal matter shall not be carried on said wagon, sleigh or other vehicle.

Rule No. 5. All bottles, cans or vessels of any sort used in the distribution or sale or collection or preparation of milk, skim milk, or cream, shall be cleansed and scalded or sterilized, before they are used again for the same purpose.

No bottles shall be filled except at the dairy or creamery.

Rule No. 6. Immediately on the occurrence of any case of scarlet fever, diphtheria, typhoid fever, or any other infectious disease, either in himself, his family, or among his employees or their immediate associates, every person engaged in the production, distribution or the sale of milk, skim milk, or cream, shall notify the Board of Health of Manchester, and at the same time shall suspend the sale of milk, skim milk, or cream, until authorized to resume the same by the said Manchester Board of Health.

No bottles, cans, or vessels used shall be removed from a private house, tenement, apartment, or place wherein a person has infectious disease, except with the consent of said Board of Health.

Rule No. 7. No person by himself, or by his servant or agent, or as the servant or agent of any other person, firm or corporation, shall in the city of Manchester, sell, exchange or deliver, any milk, skim milk, or cream which contains more than 500,000 bacteria per cubic centimeter, or which has a temperature higher than 55 degrees Fahrenheit.

The latter part of this rule in regard to temperature does not apply to raisers who deliver milk which is distributed warm within one hour from the time it is drawn from the cow.

June 2, 1908. In Board of Mayor and Aldermen. Adopted.

EDWARD C. SMITH, *City Clerk*.

A true copy. Attest: EDWARD C. SMITH, *City Clerk*.

Recorded in Records of Board of Mayor and Aldermen,

By me, EDWARD C. SMITH, *City Clerk*.

We note with satisfaction the decrease of the use of the retail measure from cans on the milk carts, where the measure and stirrer are exposed to the filthy dust of the street and cannot be properly cleaned.

We heartily deprecate the retail of milk from large cans at grocery stores where evenness of quality cannot be maintained and where the measure and stirrer are exposed to the dust of the stores and not washed or sterilized between the times of using.

The practice is highly dangerous and we hope to see it wholly discontinued in the near future.

#### WATER SUPPLY.

Since the shores of Massabesic lake are no longer used as a pleasure resort by the general public, the need of inspection is much less than it used to be.

Last season a man was employed by the water commissioners to patrol the lake so that the health inspectors were required to spend less time there.

Samples of water from different parts of the lake are sent to the state laboratory each year for analysis.

These tests show the water to be of excellent quality with but little variation from year to year.

#### DISPOSAL OF REFUSE.

Complaints in regard to the places used as dumps for the city's refuse have been more numerous than usual. There is no doubt that, even with ordinary care on the part of the street department, which has this work in charge, these dumps are a nuisance to people living in the vicinity.



The destruction of refuse and garbage by fire is the only safe and sanitary method for its disposal, and we hope to see an incinerating plant installed by the city in the near future.

#### ISOLATION HOSPITAL.

The need of this institution has never been so fully demonstrated as during the past year, and with the unusually large number of diphtheria patients to care for, it is difficult to see how we could have done without it.

At no time during the year has it been vacant and much of the time it has been filled to its fullest capacity.

On a number of occasions we have been obliged to quarantine people in their own homes who would have been glad to avail themselves of the advantages of this institution, if they could have been accommodated.

There is urgent need of a convalescent ward where patients who are recovering from the disease may be detained for a few days before they are discharged, and the city council has been asked for an appropriation of \$2,000 for this purpose.

Mrs. Carl E. Rydin, who for three years was the matron in charge, resigned, and on June first Mrs. Selma Flodin was given the position, which she has filled most capably and to the satisfaction of the board.

During the year two hundred and twenty-five cases of diphtheria and thirty-seven cases of scarlet fever were cared for, and we feel that the lives which were saved by good care and nursing at the hospital have fully justified its cost.

#### TYPHOID FEVER.

In August and September of last year typhoid fever was much more prevalent than usual.

The greater number of these cases were among the employees of two of the large shoe factories, and an investigation showed that both city and river water was used at these places and that river water had been used for drinking purposes by some of the employees, although city water was provided for that purpose by the management.

The matter was taken up by the board of mayor and aldermen and in company with the Board of Health an inspection was made of these factories, with the result that the use of river water, even for washing purposes, was discontinued.

There is little doubt that this was responsible for many of the cases as the epidemic ceased soon after this change was brought about.

#### CONTAGIOUS DISEASES.

Seven hundred and fifteen cases of contagious diseases have been reported during the year.



Of these cases four hundred and sixty-two were diphtheria and membranous croup with forty-one deaths, one hundred and forty-three cases of typhoid fever and eighteen deaths, and fifty-five cases of scarlet fever from which no deaths occurred.

Pneumonia, which was the most fatal of all diseases in 1907, was much less so this year, causing but seventy-nine deaths.

There were ninety deaths from tuberculosis against eighty for the previous year.

The table of statistics and the report of the inspectors show some interesting facts.

In conclusion we wish to express to the citizens generally and to the mayor and city government in particular, our appreciation of the assistance and encouragement received from them in the discharge of our duties.

Respectfully submitted,

J. E. A. LANOUEETTE.

WILLIAM K. ROBBINS.

WILLIAM J. STARR.



No. 1.  
FOR THE LAST TWENTY YEARS.

1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
60,000	60,000	60,000	56,987	56,987	56,987	60,000	62,000	62,000	64,000	65,000	67,000
1,018	1,001	1,068	1,167	1,131	1,092	1,103	1,006	1,327	1,243	1,220	1,113
16.97	16.68	17.80	20.47	19.84	19.12	18.43	16.22	21.40	19.40	18.76	16.60
631	521	541	561	554	622	556	477	677	575	594	550
61.98	52.04	50.65	48.07	43.99	56.95	50.27	47.41	58.55	46.21	48.68	46.43
10.50	8.68	9.01	9.84	9.71	10.91	9.26	7.69	10.91	8.98	9.13	8.20
226	254	203	244	283	238	225	201	267	261	231	279
3.77	4.23	3.38	4.28	4.96	4.17	5.75	3.21	4.30	4.12	3.55	4.16
110	122	78	119	121	98	92	72	79	69	67	70
88	73	91	100	81	78	87	87	109	95	80	90
14	10	10	6	5	12	17	6	12	15	10	9
29	17	6	8	3	22	17	10	22	30	20	32
86	45	65	40	38	55	40	31	23	34	53	26
105	72	113	118	105	120	112	101	132	120	130	79
64	50	57	77	75	54	73	55	74	79	91	82
1	9	3	6	9	2	2	1	1	1	.....	.....
12	14	12	12	11	8	10	13	9	5	8	18
3	3	5	1	.....	.....	1	.....	4	.....	3	.....
13	2	15	3	8	5	5	4	4	17	9	9
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....

TABLE No. 2.

MONTHS.	Membranous group.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Small-pox.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January ..	2	1	71	4	2	.....	2	.....	3	.....	.....	.....	.....	.....	80	5
February..	2	1	27	2	4	.....	.....	.....	1	.....	.....	.....	.....	.....	34	3
March.....	1	.....	32	.....	4	2	2	.....	1	.....	.....	.....	.....	.....	40	2
April.....	2	1	14	2	6	2	7	.....	1	.....	.....	.....	.....	.....	30	5
May .....	2	1	13	1	3	.....	13	.....	8	.....	.....	.....	.....	.....	44	2
June .....	2	2	31	.....	6	1	18	.....	7	.....	.....	.....	.....	.....	64	3
July.....	1	.....	26	3	32	1	3	.....	6	.....	.....	.....	.....	.....	68	4
August...	.....	.....	11	1	43	4	1	.....	2	.....	.....	.....	.....	.....	57	5
Septemb'r	.....	.....	45	2	23	3	.....	.....	4	.....	.....	.....	.....	.....	72	5
October...	2	.....	44	7	10	2	1	.....	3	.....	.....	.....	.....	.....	60	9
November	6	3	55	5	6	1	2	.....	3	.....	.....	.....	.....	.....	72	9
December	6	.....	67	5	4	2	1	.....	16	.....	.....	.....	.....	.....	94	7
Totals...	26	9	436	32	143	18	55	.....	55	.....	.....	.....	.....	.....	715	59

TABLE No. 3.

COMPARISON OF STATISTICS OF CONTAGIOUS AND INFECTIOUS DISEASES FOR THE PAST 24 YEARS.

YEARS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Small-pox.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885.....	*	*	*	18	*	20	*	5	*	36	*	....	....	....	*	79
1886.....	*	*	*	9	*	12	*	....	*	5	*	....	....	....	*	26
1887.....	*	*	73	17	28	18	94	4	*	9	....	....	....	....	*	48
1888.....	*	*	126	30	35	12	44	1	187	9	....	....	....	....	392	52
1889.....	*	*	79	23	36	16	259	5	54	4	....	....	....	....	428	48
1890.....	*	*	41	9	36	17	63	3	298	6	....	....	....	....	438	35
1891.....	*	*	21	2	76	18	25	....	89	2	....	....	....	....	211	22
1892.....	*	*	26	5	33	11	44	2	451	11	....	....	....	....	554	29
1893.....	*	*	7	1	79	15	110	5	212	2	....	....	....	....	408	23
1894.....	12	12	42	11	74	21	67	3	223	8	....	....	....	....	418	55
1895.....	17	11	47	11	73	21	55	4	68	1	....	....	....	....	260	48
1896.....	17	14	103	28	81	20	500	3	61	1	1	..	....	....	763	66
1897.....	14	10	148	29	78	11	387	3	54	1	....	....	....	....	681	54
1898.....	10	4	81	17	145	14	88	3	200	9	....	....	....	....	524	47
1899.....	6	3	50	6	78	12	762	5	130	3	....	....	....	....	1,026	29
1900.....	8	5	38	8	65	11	827	1	102	6	10	....	52	....	1,102	32
1901.....	3	3	18	3	55	11	15	....	48	9	16	....	178	....	333	25
1902.....	16	9	135	22	49	8	765	5	33	2	...	....	28	...	1,026	46
1903.....	26	16	146	17	62	10	112	1	37	2	1	....	161	....	545	46
1904.....	15	5	64	10	64	13	69	....	67	1	9	....	105	1	393	30
1905.....	15	9	132	22	51	9	859	4	53	1	....	....	1	..	1,111	45
1906.....	25	13	172	30	32	5	23	....	93	1	....	....	....	....	345	49
1907.....	15	9	240	20	37	8	513	3	32	....	....	....	....	....	837	38
1908.....	26	9	436	32	143	18	55	....	55	....	..	....	....	....	715	59

TABLE No. 4.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES  
AND BY MONTHS FOR THE YEAR 1908.

CAUSES OF DEATH.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Ab-cess of brain.....					1		1				1		3
“ lung.....					1								1
Accident, asphyxiation.....		2							1				3
“ burned.....			1	1									2
“ drowned.....					2	1	3			1	1	1	5
“ fractured skull.....		1					1	1					3
“ internal injuries.....	1												1
“ poisoned.....	1	1				1					1		4
“ railroad.....							2					2	4
Addison's disease.....						1							1
Alcoholism.....	1		2	1	2								6
Anæmia.....	1	3	2				1	3	3	1	1		15
Aneurism of aorta.....											1		1
Angina pectoris.....			1	1			1			1		1	5
Aortic insufficiency.....	1												1
Apoplexy.....	5	6	7	3	3	6	5	5	3	6	2	5	56
Appendicitis.....	1						1			1			3
Asthma.....	1	1			1				1	1		1	4
Asthma.....	1								1				2
Ataxia locomotor.....			1										1
Atelectasis.....								1					1
Brain, congestion of.....			1	1						1	1		4
Bronchitis.....	3	5	2	2	2				1	2	3		20
“ capillary.....	1	1		1		2						1	6
Cancer.....			1	2							1		4
“ of bladder.....											1		1
“ breast.....			2		1			2				1	6
“ buttock.....							1						1
“ intestines.....	1				1								2
“ liver.....	1	3	1		1	1		1			1		9
“ rectum.....						1							1
“ stomach.....	1	2			1				3		1	1	10
“ uterus.....						1	1		1		1	1	6
Cholera infantum.....	1					5	27	15	14	6	2		70
Cholera morbus.....							2	1	1				4
Convulsions.....	4		1	1	2			1	1		2	3	15
Colitis, entero.....						1	4	2	2		1		10
“ ileo.....						1	4						5
Croup, membranous.....	1	1		1	1	2					3		9
Cyanosis.....	1				1					1		2	6
Cystitis.....		2		2			1						5
Dementia.....					1								1
Dentition.....								1				1	2
Diabetes.....		1	1	1		1				1			7
Diphtheria.....	4	2		2	1		3	1	2	7	5	5	32
Dropsy.....				1									1
Dysentery.....							2			2			4
Ectopia vesicæ.....					1								1
Embolism, cardiac.....											1		1
“ pulmonary.....									2	1			3
Empyema.....				1									1
Encephalitis.....									1		1		2
Endocarditis.....	3	1	1		2	1	1		2	1	1		14
Enteritis.....	2			1			1	1			2		7
“ gastro.....	2		3	4	5	3	10	4	4	1		2	38
“ tubercular.....	1							1					2
Epilepsy.....											1		1
Fever, malarial.....	1												1
“ typhoid.....			2	2		1	1	4	3	2	1	2	18
Gallstones.....					1			1					3
Gangrene.....			1	1				1					3
Gastritis.....	1				1		2	1	1	2	1		9
Haematemesis.....						1							1
Heart, Dilatation of.....						1				1			3
“ Disease of.....	4	3	2	3	4		4	4	2	4	8	2	40



TABLE No. 4.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Heart, hypertrophy of.....					1		1	1			1		4
“ paralysis of.....		1						1					1
“ regurgitation of.....							1	1	1				1
“ valvular disease of.....	5			4	3	2	1	5	1	8	2	2	33
Hemorrhage, intestinal.....							1						1
“ of the new born.....										1			1
“ uterine.....										1			1
Hernia, strangulated.....						1	1						2
Hepatitis.....											1		1
Hydrophobia.....											1		1
Icterus neonatorum.....							1	1			1		2
Ileus.....				1									1
Indigestion, acute.....		1		1	1	1	1		1			1	7
Injury at birth.....								1					1
Intestinal obstruction.....	1		1				1	1		1			5
Intussusception.....		1											1
Jaundice.....						2							2
La Grippe.....	3		2										5
Laryngismus, stridulus.....					1								1
Laryngitis.....										1		1	2
“ tubercular.....					1								1
Liver, cirrhosis of.....			1			2					1		4
“ hyperaemia of.....					1								1
Lungs, congestion of.....					1			1		1			3
Malformation.....				1									1
Malign't stricture of intestines	1												1
Malnutrition.....				1				3	1	1		2	8
Marasmus.....	4	10	5	8	5	8	14	8	1	8	4	5	80
Meningitis.....	2	1	3	3	2	3	7		3	4	5	5	38
“ cerebro spinal.....				1	1	1	1	1	1		1	1	7
“ tubercular.....	1	1			1			2				1	7
Myelitis.....	1							1					2
Myocarditis.....					1			1	1				3
Nephritis.....	2	1	3	3	1	4		2	5	3	2	2	28
“ chr. interstitial.....	1					1	2		2				6
Obstruction of bile ducts.....											1		1
Oedema of glottis.....													1
“ pulmonary.....		1											1
Old age.....	1	3	1	3		2	2	1	2	1	3	2	21
Paralysis.....		3			2	1	1		1			3	11
Parturition.....						1							1
Peritonitis.....	2			2			1		2		1	1	9
Pertussis.....			1	1	1	1		1				4	9
Pleuritis.....		1		1	1								3
Pneumonia.....	11	4	4	4	3	3	2	1	4	5	3	6	50
“ broncho.....	3	1	3	3			1	1	1	2	1	1	21
“ pleuro.....	1		1										2
“ typhoid.....	1	2			1							2	6
Potts' disease of spine.....				1							1		3
Premature birth.....	2	1	4	3	4	1	5	2		2	5	3	32
Pyæmia.....						2							2
Pyelitis.....								1					1
Pyonephrosis.....				1							1		1
Rachitis.....													1
Sarcoma of kidney.....									1				1
Sclerosis, arterio.....		1	2		1			2			1	1	8
Septicæmia.....		1					1				1		3
Stenosis, cardiac.....			1								1		1
Streptococcal infection.....												1	1
Stillborn.....	10	8	12	5	9	8	7	10	6	12	12	7	106
Suicide by drowning.....						1	1	1					3
“ by hanging.....						1					1		1
“ from illuminating gas.....							1			1			2
“ by shooting.....	1		1								1		3
Sunstroke.....							1						1

TABLE No. 4.—*Concluded.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Surgical shock .....	...	...	1	...	1	...	...	2	1	1	1	...	7
Syphilis, hereditary.....	1	...	1	...	...	...	3	...	...	...	...	...	5
Tabes dorsalis.....	...	...	...	...	...	...	...	...	...	...	1	...	1
Tetanus.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Thrombosis .....	...	...	1	...	...	...	1	...	...	...	...	...	2
Toxæmia .....	...	...	...	...	...	1	1	...	...	...	...	...	2
Traumatism of spine .....	...	...	...	...	...	...	1	...	...	...	...	...	1
Tuberculosis .....	2	2	1	1	...	1	...	4	1	3	...	2	17
“ pulmonary .....	6	10	5	8	5	4	5	8	3	9	4	6	73
Tumor, Malignant.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Ulcer, gastric.....	...	...	1	...	...	...	...	...	...	1	...	...	2
Unknown, natural causes.....	...	3	...	...	1	...	1	...	...	2	...	...	7
Uræmia.....	1	...	2	1	2	2	...	2	1	1	1	...	13
Totals.....	107	90	88	91	88	86	152	115	91	113	110	98	1219

## REPORT OF THE INSPECTOR OF PLUMBING AND MILK.

---

### *Gentlemen of the Board of Health:*

I beg to submit the following report of the inspection of milk during the year 1908:

Number of samples milk, skim milk, and cream tested	645
brought in by milk dealers and	
citizens .....	119
collected by the inspectors .....	562
sealed duplicate samples demanded and given,	2
samples below standard, April 1 to September 30 .....	15
below standard, January 1 to March 31 and October 1 to December 31, .....	22
letters written to dealers and others.....	54
dealers found selling without a license....	20
wagons improperly marked.....	12
Average butter fat from January 1 to March 31 and October 1 to December 31 .....	4.01 %
Average butter fat from April 1 to September 30.....	3.696%
Average acidity from January 1 to March 31 and October 1 to December 31.....	.151%
Average acidity from April 1 to September 30.....	.155%
Average specific gravity at 60° F. from January 1 to March 31 and October 1 to December 31.....	1.0318
Average specific gravity at 60° F. from April 1 to September 30 .....	1.0307
Average butter fat in thirty-two samples cream.....	34.41 %
Dairies inspected .....	20

Every sample was tested for formaldehyde and many additional tests were made for colostrom cells, coloring matter, carbonates, salicylic acid, boric acid, cream thickeners, total solids, milk serum, condensed milk and concentrated milk.

During the year I have notified several milk dealers to appear before the board for violating the milk laws, and this has proved effective in stopping minor violations.

The number of licenses granted during the year was 294; 85 of these were granted to milkmen, 168 to proprietors of stores, and 41 to people keeping cows and selling milk from their premises.

Three hundred and seventy-one dollars were collected for license fees.

The milk inspector has visited all of the largest plants and inspected their methods, machinery, cans and milk wagons, and in making these inspections it occurred to him that some standard or system for making inspections would make the work more thorough and satisfactory.

Having heard of the score card system, he began an investigation, and, finding it so practical, recommended to the board that they adopt it, which they did at a meeting in December.

He then wrote to the department of agriculture at Washington for information in regard to the method of filing these records.

This resulted in a call from Professor Weld of the department who gave some explanation and instruction as to their use and left samples of the latest score cards, which are an improvement over the old ones.

Professor Weld was able to spend but about two hours with the inspector at this time but promised to use his influence to bring about a week's visit and make a thorough demonstration later in the season.

Application has been made to the department of agriculture for some assistance in this matter and they have promised to send a man here early in April.

It is remarkable how indifferent and ignorant the average citizen is about the care and cleanliness of the milk used in his family.

If it is not sour or too thin he thinks it is all right.

The milk question is a complicated and delicate one.

Milk is affected by the condition and surroundings of the cow, her food, the carelessness of the milker, improper care of milk utensils or by not having immediate care after milking.

Then again the citizen may receive the milk clean, pure, and fresh, and through his own improper care, spoil the milk for food.

Babies suffer most from dirty milk and those that survive are weakened by its use and have to struggle for their lives.

Next to cleanliness, cooling the milk quickly and immediately is most important, as germs cannot multiply rapidly in cold milk.

Another important thing is freshness, as during the first few hours milk contains in itself germicidal qualities which retard the growth of bacteria.

Therefore get milk as fresh as possible for the young babies.

The Board of Health has had laws and ordinances passed in order to bring the milk supply up to as safe a standard as practical, but beyond a certain point the consumer is responsible for the quality of the milk supplied.

He should know and be interested in the methods used and the care taken in producing the milk used in his family, and if his milkman is barely within the law.

Bulletin 99, Bureau of Animal Industry, United States Department of Agriculture, issued May 11, 1907, states:

"Since the tuberculin test is the only practical means of detecting tuberculosis in the live animal before an advanced stage is reached, the importance of testing dairy cows with tuberculin and removing every reacting animal is again emphasized.

"In order to guard against the spread of tuberculosis among cattle and other animals, and more especially for the protection of persons, every dairy cow should be periodically tested with tuberculin, and every cow that shows a reaction indicating that she is affected with tuberculosis should at once, regardless of her general appearance or condition or semblance of health, be removed from use as a dairy cow and from all contact with dairy cattle or other healthy animals.

"If segregation is practiced, it should be complete, so that no healthy animal will be exposed to feces that may swarm with living, virulent tubercle bacilli."

In my annual report of 1906 and 1907 I said, "In my opinion a systematic examination of the cow barns and a physical examination of cattle supplying milk to this city would be very valuable," and this is what we are proposing to do by means of the score cards.

Respectfully submitted,

CARL O. SEAMAN,  
*Milk Inspector.*

#### PLUMBING FIXTURES SET.

Number of tank water closets.....	705
sinks .....	439
bathtubs .....	359
washbowls .....	507
washtrays .....	217
urinals .....	5
refrigerators .....	3
slophoppers .....	12
rain leaders .....	47
Other fixtures not classified above.....	14
Total number of fixtures put in.....	2,308
Number of plumbing notices filed.....	367
water tests of soil pipe made.....	412
stacks of soil pipe made.....	437
smoke tests of soil pipe.....	15
defects and leaks found.....	163
complaints investigated .....	14
fixtures and pipes found unserviceable and repaired .....	11
letters written .....	31

One hundred and forty-four consultations with owners, tenants, and agents, plumbers, etc., were held.

A total of 1,900 inspections were made of the work during its progress and after its completion.

Plumbers should get their notices for testing and inspection in early, thereby insuring more prompt and effective service. It often happens that I am called a long distance from the office and upon returning find another notice to go back in the same locality, thereby wasting valuable time, which might be saved by sending notices in early.

Respectfully submitted,

CARL O. SEAMAN,

*Inspector of Plumbing.*



## SANITARY INSPECTORS' REPORT.

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### *Gentlemen of the Board of Health:*

We beg to submit the following as the report of the work of the sanitary inspectors for the year 1908:

Vaults and privies inspected.....	40
Vaults inspected after cleaning.....	23
Water closets inspected.....	1,463
Urinals inspected .....	61
Sinks inspected .....	642
Yards and alleys inspected .....	1,092
Cellars inspected .....	1,153
Barns and outbuildings inspected .....	146
Tenements inspected .....	799
Barn cellars inspected .....	108
Teams and riggings of excavators inspected.....	11
Soaperies and slaughterhouses inspected.....	5
Vaults and privies ordered cleaned or repaired.....	14
Urinals cleaned or repaired.....	20
Yards and alleys cleaned .....	341
Cellars cleaned .....	290
Barn cellars cleaned .....	17
Sheds, etc., cleaned and inspected.....	47
Tenements cleaned .....	61
Water-closets cleaned or repaired.....	921
Sinks trapped or repaired.....	162
Leaky drainpipes repaired.....	49
Houses within 100 feet of the public sewer and not connected therewith .....	4
Filthy hallways and roofs ordered cleaned.....	20
Openings other than leaks in the drainage system were found in places and same were ordered closed by the department.	46

Two hundred and fifty-four bathtubs and washtrays were inspected.

Sewage was found running upon the surface of the ground in 21 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 5,211 calls and to write 360 letters.

Five hundred and eighty-nine complaints have been investigated.

In 421 cases the inspectors have been able to give relief, and in 62 cases it was found that no cause existed or that same was beyond the control of the department.

Forty-three complaints were made against the scavenger service, in each case the proper parties were notified and relief afforded.

Forty-one persons were found throwing garbage in the back streets and lake and were warned against the practice.

Private swill collectors have been warned fifty-eight times to be neater in their work.

Forty-nine dead animals have been properly disposed of.

Sixty-three hens and small animals have been removed from cellars.

Thirty-nine swine and cows have been discovered being kept within the sanitary limits of the city without licenses. The same were ordered removed or licenses procured.

Eight notices have been prepared and served and proper returns made.

Seventy-two catch basins or street cesspools have been inspected, and 18 have been flushed or repaired by order of this department.

A sanitary inspection has been made of 30 bakeshops and 12 stores, and 5 bakeshops and 4 stores have been ordered cleaned. Theatres have been inspected 3 times, circuses 2, and sausage factories 15 times.

The dumps have been inspected 26 times; found insanitary 7 times. One hundred and thirty-six nuisances not otherwise classified have been abated through the efforts of this department.

Householders have been given 3 permits to clean their own vaults.

Permits to the number of 1,159 have been granted for the burial and removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month and copies sent to about 300 other towns and cities, to local physicians, etc.

Weekly reports of contagious diseases have been sent to the state board of health at Concord, the Marine hospital service at Washington, D. C., and to the superintendent of schools, and the city librarian. Samples of water, oysters, and ice cream were sent to the state laboratory for analysis. Four hundred and eighty samples of milk were collected.

Contagious and infectious diseases have been reported as follows: Measles, 55; diphtheria, 436; typhoid fever, 143; scarlet fever, 55; membranous croup, 26; smallpox, 0; total, 715.

The inspectors were unable to trace the cause in 356 cases; in 349 cases the connection with some previous case was clearly traceable. Seven cases were contracted outside of the city, and in two cases it was reasonable to attribute the cause to insanitary surroundings.

In some cases disinfectants were being used and the inspectors ordered their use in other cases. At most of these places instructions

were given as to their use, and in many cases the department furnished the disinfectants. .

In some cases patients were found well isolated, and in other cases inspectors were obliged to order isolation, and in all cases to give instructions as to the steps to be taken.

Houses were watched to see that the rules of isolation were complied with, and several funerals were attended to prevent a too public observance of the same.

One thousand eight hundred and twenty-three rooms and three schoolhouses where diseases had existed were fumigated by the inspectors.

About 3,000 pamphlets issued by the state board of health have been distributed in localities where contagious diseases existed.

The shores of Lake Massabesic were patrolled by the inspectors on Sundays, holidays, and through the week during the summer season.

Ice fields from which ice was being cut were inspected and several picnics and band concerts were attended to prevent the careless disposal of waste and rubbish in the lake or on its shores.

Respectfully submitted,

JOHN F. LOONEY.

WILLIAM B. BLAKE,

*Sanitary Inspectors.*



REPORT  
OF THE  
CHIEF ENGINEER, FIRE DEPARTMENT.





# REPORT OF THE FIRE ENGINEER.

CHIEF ENGINEER'S OFFICE,  
CENTRAL STATION, NO. 8 VINE STREET.

MANCHESTER, N. H., December 31, 1908.

*To His Honor, Eugene E. Reed, Mayor, and Gentlemen of the City Council:*

In compliance with the Laws and Ordinances of the city of Manchester, I herewith submit my thirtieth annual report on the working of the fire department for the year ending December 31, 1908, it being the sixty-third of this city.

We have been very fortunate in the fact that the city has escaped with no very serious fires during the year—the one in Odd Fellows' block of October 20 being the most serious, and that, at one time, was of such a threatening nature that word was sent to the Concord department to be in readiness to render assistance. Chief Green at once loaded a steamer and hose wagon and had men ready, but their services were not required, and word was sent later to that effect.

There were during the year 1908 one hundred and seven (107) bell alarms, and two hundred and seventy-three (273) still alarms, making a total of three hundred and eighty (380). Of these four (4) were second alarms, and one a third or general alarm. One hundred and seven (107) were for "chimney fires," and eighty-four (84) for grass, brush, and forest fires, and seven (7) were false alarms.

In responding to alarms the department has laid one hundred and five thousand three hundred (105,300) feet of hose, thrown three thousand one hundred and forty-three (3,143) feet of ladders, used two hundred and sixteen (216) pony extinguishers, and seventy-five (75) chemical engine tanks.

The following is a summary of value of property where fires have occurred, the amount of insurance carried on such property, the amount of losses and insurance paid, to such fires as any of the department has responded to:

Value of buildings where losses have occurred.....	\$531,875.00
Value of contents where losses have occurred.....	284,201.00
Total value .....	<u>\$816,076.00</u>
Insurance carried on buildings.....	\$312,241.67
Insurance carried on contents.....	155,867.00
Total insurance carried .....	<u>\$468,108.67</u>

Damage to buildings .....	\$52,388.21	
Damage to contents .....	62,340.56	
		\$114,728.77
Insurance paid on buildings.....	\$47,778.56	
Insurance paid on contents .....	37,309.34	
		85,087.90
Net loss over and above insurance paid.....		\$29,640.87

## THE MANUAL FORCE

Of the department has been increased during the year by the addition of four (4) permanent and ten (10) call men attached to the new steamer company (No. 7) that was put into service in January; one permanent man added to the Chemical Engine Company, and one permanent substitute driver, making in all one hundred and eighty-five (185) men.

The following is the assignment of men:

	Call.	Permanent.
1 chief engineer .....		1
4 assistant engineers .....	4	
Engine Company No. 1 .....	11	3
Engine Company No. 2 .....	10	4
Engine and Ladder Company No. 3.....	15	5
Engine Company No. 4.....	11	3
Engine and Ladder Company No. 5.....	15	5
Engine and Ladder Company No. 6.....	15	5
Engine Company No. 7 .....	10	4
Hose Company No. 1.....	11	1
Hose Company No. 2.....	10	2
Hose Company No. 3.....	6	2
Combination No. 2 .....	6	2
Aërial Truck No. 1.....	12	3
Chemical No. 1.....	2	3
Driver Supply Wagon .....	1	
Substitute drivers .....		3
	139	46

## THE APPARATUS

Consists of 7 steam fire engines, 10 hose wagons (two combination chemicals and one with ladders attached), 4 hook and ladder trucks (one an eighty-five foot aerial, carrying other ladders), 1 supply wagon, 9 exercise wagons, 1 chief's wagon, 3 spare one-horse hose carriages, located as follows:

CENTRAL STATION: Two first size Amoskeag steamers, with three-horse hitch, 2 one-horse hose wagons, 1 two-horse hose wagon, 1 aerial truck (three-horse hitch), 1 double (60 gallons) tank chemical engine, 1 supply wagon, 1 exercise wagon, 1 chief's wagon, 1 repair wagon for fire-alarm telegraph.

NORTH MAIN-STREET STATION: One second size Amoskeag steamer (three-horse hitch), 1 two-horse combination chemical and hose wagon, 1 old U tank steamer in storage, 1 exercise wagon.

MCGREGORVILLE STATION: One second size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon.

LAKE AVENUE STATION: One first size Amoskeag steamer, with three-horse hitch, 1 two-horse hose wagon, 1 hook and ladder truck (three-horse hitch), 1 exercise wagon, 1 one-horse hose carriage in storage.

WEBSTER-STREET STATION: One third size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon, 1 one-horse hose carriage (in storage).

MAPLE-STREET STATION: One two-horse hose wagon, 1 exercise wagon.

SOUTH ELM-STREET STATION: One two-horse combination hose wagon, carrying ladders, 1 exercise wagon.

WILSON HILL STATION: One two-horse combination chemical and hose wagon, 1 exercise wagon, 1 one-horse hose carriage (in storage).

SOMERVILLE-STREET STATION: One second size Amoskeag steamer (with three horse hitch), 1 two-horse hose wagon, 1 exercise wagon.

In addition to the foregoing there is 1 hose carriage in Amoskeag on Front street, 1 hose carriage corner Massabesic street and Mammoth road (both volunteer companies), 1 two-wheeled hose carriage, Devonshire Mills, Goffe's Falls, 1 two-wheeled "jumper" in basement of W. P. Farmer's barn cellar, Candia road, corner Hanover street, 5 sleds used as hose sleds in the winter. It is expected that arrangements will soon be made to install one of the spare one-horse hose carriages at Goffe's Falls whenever a building can be obtained suitable for its accommodation.

The wheels of Engine No. 4 have been newly rimmed, spokes repaired, and heavier tires put on all the wheels.

January 11 a new company, Engine No. 7, on Somerville street, was put into service consisting of one second size Amoskeag steamer, old No. 3 thoroughly overhauled and repaired, making it in every respect as serviceable as a new machine, and a new two-horse hose wagon, rubber-tired, and manned by four permanent and ten call men. This affords a much needed fire protection in this manufacturing and fast-growing section of East Manchester, as the number of times it has been called into service shows.

The station was dedicated on the evening of March 25 by a banquet tendered the citizens by the members of this new company.

The old one-horse hose carriages of Hose 1, Engines 5 and 6 have each been superseded by new, up-to-date, two-horse, rubber-tired hose wagons.

#### THE BUILDINGS.

The stations of Engine and Ladder Companies Nos. 5 and 6 have been remodeled by an additional stall at each station to accommodate

the new two-horse hose wagons that replaced the old one-horse hose reels. The box stall or the enlargement of the stable at Engine and Ladder 5 that has been urged for a number of years should receive the early attention of the incoming city councils, and I trust an appropriation for this purpose will not be "turned down."

#### THE HORSES.

The department now has fifty-five (55) horses. On April 30, the bay mare, "Nancy," of Aërial Truck Company No. 1, was condemned by a veterinary as afflicted with "glanders." Arrangements were made with said veterinary to shoot her, but instead he sold her to parties who afterwards sold her in Barnstead, N. H. The case was followed up and finally settled in court, and the regret of many was that the law was not more stringent for such a crime, and the penalty more severe.

#### THE FIRE-ALARM TELEGRAPH

Has received the most careful and skilful attention, and notwithstanding the criticisms of "sidewalk committees" has rendered good service, and better than a majority of the departments with similar construction and mechanical apparatus that have been as long in continual service. The repeater at the Central office is of the old style, and should be replaced by one of more modern construction, or the present one remodeled at an expense of nearly half what a new one would cost.

One fire-alarm box, No. 224, at the corner of Belmont and Grove streets, was installed October 16.

A tower striker should be attached to the bell on the Hallsville schoolhouse for the benefit of the newly formed company, Engine No. 7, on Somerville street.

With the present overhead construction much trouble is liable to occur from crossed wires, snow, and sleet, and the limbs of trees through which many of the wires are obliged to be run. Underground construction becomes more imperative each year.

#### CASUALTIES.

January 20, Truck No. 3, in responding to an alarm from box 3, collided with a tree on Lake avenue near Wilson street, breaking the three-horse hitch, cutting one of the horses severely on a barbed-wire, slightly injuring Lieut. Edwin C. Paul, injuring the foot and leg of substitute member Frank Curtis, who was off duty fifty-nine days from result of injuries. At the fire which caused this alarm a child was slightly burned by the tipping over of a kerosene lamp.

January 23, while working at a second-alarm fire at corner of West Central and Elm streets, Capt. Charles F. McCoy of Engine No. 1 ruptured a blood-vessel, confining him to his house until February 10, when he died from the result of the injury. Lieut. Orris S. Coburn of



Engine and Ladder No. 3, while at this same fire, ruptured the ligaments of his right knee. Off duty seventy days.

Frank B. Stevens, whose injuries were reported in previous report as injured December 27, 1907, was confined to the hospital eighty-one days and off duty one hundred and ninety days.

February 10, while responding to an alarm from box 12, Thomas Smith of Hose 2 slipped on the ice, dislocating his wrist. Off duty sixty-three days.

February 15, at an alarm from box 82 for a fire at No. 1161 Elm street, Mr. Joseph Pichette was so severely burned about the body that he died within a few hours after his removal to the hospital.

April 30 at an alarm from box 5 for a fire in office of Dr. F. C. Chase, 794 Elm street, caused by kerosene lamp, Dr. Chase was burned about his hands and face.

June 11, Frank A. Pherson of Truck No. 1, while responding to a supposed alarm, sprained ligaments of right leg. Off duty twenty-four days.

June 24, Henry C. Crosby of Combination Company No. 2, while responding to an alarm from box 24, sprained his back. Off duty sixteen days.

June 27, at a fire Nos. 9-11 Laurel street, Mrs. Jeremey B. Folsom was quite severely burned about face and hands in endeavoring to throw a burning kerosene oil stove out of the house.

August 17, while working at a fire at Derryfield Lumber Company (box 213), William J. Kennedy was injured in back by shafts of hose wagon. Off duty six days.

October 20, at the three-alarm fire, boxes 6 and 7, for Odd Fellows' block on Hanover street, George H. Hammond, clerk of Truck No. 1, fell through the roof breaking three of his ribs. Off duty ten days.

Gardiner E. Marston, substitute member of Engine No. 4, fell through the roof at same time, breaking the bones of his ankle. Off duty fifty-four days.

Harry L. Hawley, substitute member of Engine No. 4, was struck by hose nozzle. Off duty five days.

Bert H. Stone, substitute member of Hose No. 2, cut on hand by falling glass. Off duty eight days.

November 11, after return from an alarm of fire from box 23, William H. Seaward, substitute member of Chemical Company No. 1, was severely burned about the eyes by the tipping over of jar of sulphuric acid. Off duty eleven days.

November 15, at a fire in Pariseau's store, 1001-1005 Elm street (box 81), Assistant Chief John F. Seaward received severe cut on left cheek by the falling of a portion of steel sheathing. Off duty fourteen days.

Death has entered our ranks and three of our members have answered their last roll-call here on earth.

**CAPT. CHARLES FREDERICK McCOY**

OF ENGINE CO. NO. 1

BORN AT MANCHESTER, N. H., APRIL 17, 1844

DIED AT MANCHESTER, N. H., FEBRUARY 11, 1908

AGED 63 YEARS, 7 MONTHS, 24 DAYS

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**BENJAMIN FRANKLIN MARSH**

OF TRUCK CO. NO. 1

BORN AT MANCHESTER, N. H., AUGUST 18, 1864

DIED AT MANCHESTER, N. H., MAY 22, 1908

AGED 43 YEARS, 9 MONTHS, 4 DAYS

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**LOUIS NAPOLEON DUFRAIN**

OF ENGINE AND LADDER CO. NO. 3

BORN AT ST. ROCK, CANADA, MARCH 7, 1847

DIED AT MANCHESTER, N. H., OCTOBER 21, 1908

AGED 61 YEARS, 7 MONTHS, 13 DAYS



## THE FIREMEN'S RELIEF ASSOCIATION.

In no year during its existence have the funds of this association been so heavily drawn upon, and its members have seen the wisdom of a well-filled treasury. The donations from our citizens have been very liberal, for which the association feels duly grateful.

The financial condition is as follows:

Balance on hand February 11, 1908.....		\$8,923.46
Received for dues .....	\$208.00	
Received from dividends on deposit.....	299.27	
Received from New York Film Co. (former deposit) .....	25.00	
Donations:		
A lady friend .....	200.00	
A friend .....	100.00	
Town of Auburn, N. H.....	50.00	
West Side Lumber Co.....	25.00	
James W. Hill .....	25.00	
George H. Chandler .....	25.00	
Mrs. G. Byron Chandler .....	25.00	
Manchester Coal & Ice Co.....	25.00	
James W. Hill Company (2 of \$10.00 each),	20.00	
Jeremiah Hodge .....	15.00	
Frank E. Green .....	10.00	
A friend .....	5.00	
Albert T. Barr .....	5.00	
Benjamin E. Thompson .....	5.00	
		<hr/>
		1,067.27
		<hr/>
		\$9,990.73

CR.

Paid benefit Capt. Chas. F. McCoy.....	\$112.75
Death benefit of Chas. F. McCoy.....	50.00
Benefit of Frank B. Stevens .....	192.00
Benefit of Frank B. Stevens, hospital and doctor .....	441.45
Benefit of Frank Curtis.....	79.00
Death benefit of Benj. F. Marsh.....	50.00
Benefit of Lieut. Orrin S. Coburn.....	103.00
Benefit of Henry C. Crosby .....	18.50
Benefit of Thomas Smith .....	85.00
Benefit of Frank A. Pherson.....	31.50
Benefit of William J. Kennedy.....	12.00
Death benefit of Louis N. Dufrain.....	50.00
Benefit of Bert H. Stone .....	11.50
Benefit of Gardiner E. Marston.....	92.00
Benefit of Harry L. Hawley.....	7.50

Paid Benefit of William H. Seaward.....	\$16.00	
Benefit of John F. Seaward.....	24.00	
O. P. Stone, secretary's salary.....	25.00	
Postals and printing .....	12.00	
		<hr/>
		\$1,413.18
Leaving a balance in treasury of .....		<hr/>
		\$8,577.55

## CONCLUSION.

I cannot close this report without calling the attention of the city councils to what seems an unjust custom of charging the rental of hydrants to the direct expenses of the fire department. There is hardly one, if any, city that makes such charge a part of the department expenses, and it should be set apart as a separate appropriation.

I would recommend the purchase of a new chemical engine for the Central station, and place the one now in use in service on the south side of 'Squog river on the West Side. This engine has been in constant service since April 1, 1886, and is still in condition to render good service for a long time in that locality, and thus afford fire protection for the property in that section.

By the removal of the manufacture of the Amoskeag steamers from this city we have lost what we have always relied upon as great help in case of a conflagration, for there was scarcely any time but what we could get from two to five steamers for assistance. Let us hope occasion will never happen when we would need such emergency assistance, and right now, while some of the larger cities are agitating high-service, direct-pumping systems, we should not be unmindful that similar services should be carefully considered for this city. A direct pressure water system, however good, should not be thought infallible to the extent of entire exclusion of auxiliary pumping service, either by fire engines or stationary pumps. Stationary pumps could be located near the river to pump directly into high service pipes whenever occasion should require.

One of the great fire hazards that confronts us at the present day is the MOVING PICTURE MACHINES, and I earnestly recommend the early adoption of an ordinance, with such rules and restrictions as to compel the careful handling, and storage of films, as well as the construction of the booths for the operation of these machines. Under proper restrictions the fire hazards can be reduced to moderate proportions.

I wish to extend my sincere thanks to the committee on fire department and members of the city councils who by their official acts have aided the department, to the police department for their cheerful co-operation at all times, to my assistant engineers for their valuable aid so heartily given, and to the officers and men for their promptness, efficiency and willingness to perform the many duties they are called upon to perform.

Respectfully submitted,

THOMAS W. LANE,

*Chief of Department.*

**Number and Location of the Fire Alarm Boxes and Keys.**

A KEY IS ATTACHED TO EACH BOX (with few exceptions), and can be had by breaking the glass.

No. 3. American Locomotive Company's lower shop. Keys at offices of gas-works, county jail, Manchester Coal & Ice Company's sheds, and the Hutchinson shop building.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Milford, L. B. Bodwell & Co.'s, Palmer & Garmon's, street railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Tebbetts & Co.'s and Hanscom's drug stores, Manchester House, and J. W. Hill Company's store.

No. 6. City Hall. Keys at Holland's and Weeks' drug stores, Riddle block office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner Elm and Hollis streets. Keys at Dante Smith's and Leblanc & Provencher's drug stores, and Partridge Brothers' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residence of Mrs. H. D. Corliss, J. Freeman Clough, Dr. E. Fritz, and station of Engine and Ladder No. 5.

No. 12. Corner of North and Pine streets. Keys at residence of George Emerson, Walter A. Green, and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residence of Welcome Jencks and Mrs. Lewis Simons, No. 1 Senter's block, and Steele's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland, Mrs. George W. Riddle, D. J. Adams, and Mrs. Thomas Morgan.

No. 15. Corner of Pearl and Chestnut streets. Keys at residences of Henry W. Shannon and J. Fred Chalker.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Guertin and R. H. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Miss Mary A. Watts and Michael Connor.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and William Perkins' estate.

No. 21. Corner of Merrimack and Pine streets. Keys at A. D. Smith's drug store, J. McKeon's grocery store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at the residence of the late Eben T. James.

No. 24. Engine and Ladder Company No. 3 house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, Mrs. A. D. Gooden, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis' carriage shop.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of E. S. Fletcher, Dr. Walter T. Crosby, and Mrs. William Carr.

No. 28. Corner of Merrimack and Beacon streets. Keys at residences of A. L. Garmon and H. B. Fairbanks.

No. 29. Corner of Hall and East High streets.

No. 31. Corner of Canal and Hollis streets. American Locomotive Company's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mill, Langdon watchroom, and Electric Light station.

No. 34. Jefferson Mill. Keys at watchroom and pumping station.

No. 35. Stark Mills. Keys at watchroom.

No. 36. Amory Mills. Keys at watchroom.

No. 39. Hillsborough county jail. Keys at office.

No. 41. Amoskeag Mills. Keys at watchroom.

No. 42. Manchester Mills. Keys at watchroom.

No. 43. The Olzendam Mill. Keys at watchroom.

No. 45. The S. C. Forsaith shops. Keys at freight depot and office in building.

No. 51. Corner of Walker and Second streets. Keys at stores of F. Riedel and Henry Weber.

No. 52. Loxton Block, Granite Square, West Manchester. Keys at Merrimack Hotel, Wiggin-Young grocery, and Engine No. 2.

No. 53. The West Side Lumber Co.'s steam mill. Keys at mill office, I. R. Dewey's tenement block, and Ranno's harness store.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and grocery store opposite box.

No. 56. Mast street, opposite Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 57. Corner Mast road and D street. Keys at residence of C. H. George, and F. W. Towle's store.

No. 61. Hose No. 3, South Elm street. Keys at Hose house.

No. 62. Manchester Wool & Leather Company's, Brown avenue. Keys at tannery, the Edwin Kennedy house, and Hose 3.

No. 63. Corner Beech street and Titus avenue. Keys at residences of L. E. Carswell and C. L. Wenberg. (No key on box.)

No. 64. Corner Pine and Willow streets. Keys Cohas Shoe factory,



the Lincoln House, and Stevens Bros.' Marble Works. (No key on box.)

No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins and James Briggs.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr.

No. 81. Central Fire Station, Vine street. Keys at all the engine rooms.

No. 82. Old City Hotel, corner Lowell and Church streets. Keys at Lowell-street stable and Eames Bros.' drug store.

No. 91. Corner Webster and Beech streets. Keys at Children's Home and residences of George E. McClintock, Solomon Johnson, M. E. Sanctuary. (No key on box.)

No. 92. Corner Union and Clarke streets. Keys at residences of Mrs. Julia B. Bradford and E. H. Nutting.

No. 93. Corner of Elm and Carpenter streets. Keys at residences of A. H. Weston and Dr. George D. Towne.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. A. Clarkson, M. D. Johnson, and Charles F. Chase.

No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson, and E. M. Topliff.

No. 114. Corner of Pearl and Ash streets. Keys at residences of John J. Bennett and Mrs. Harriet L. Healey and Ash-street school-house.

No. 115. Corner of Blodget and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.

No. 116. Corner Salmon and Ash streets. Key at Masonic Home.

No. 117. Corner of Sagamore and Russell streets.

No. 212. Shoe shop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, M. V. B. Garland, and the Walter Cody block.

No. 213. Sash and blind factory. South Beech street, junction of Portsmouth railroad. Keys at offices of Derryfield Sash & Blind Company.

No. 214. Elliot silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.

No. 215. Hoyt & Co.'s shoe shop, corner of Lincoln and Silver streets. Keys at offices of shoe shop and Kimball Carriage Company and workshop opposite.

No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.

No. 217. Corner Candia road and Massabesic street. Keys at residences of L. M. Streeter, William Gadbois, and Charles P. Still.

No. 218. Corner of Somerville and Hall streets. Keys at residences of Mrs. George Hall and George Kay.

No. 219. Eaton Heights shoe shop, Page street. Keys at shoe shop office and residences of Charles A. Merrill, John P. Young, and Joseph W. Rand. (No key on box.)

No. 224. Corner of Belmont and Grove streets. Keys at residences of John A. Adams, Joseph Quirin, and Mrs. H. G. Walker.

No. 241. Lake avenue hill. Key at residence of Charles Davis.

No. 242. Merrimack and Wilson streets. Keys at Capt. C. R. Merrill's and Engine and Ladder Company No. 3.

No. 243. Corner Candia road and Sherburne street. Keys at residences of Fred L. Watts, Alex Oliver, Andrew J. Murray, and Mrs. S. L. Cummings. (No key on box.)

No. 261. Pearl-street grammar school. Keys at schoolroom and residences of C. E. Rose, S. W. Bascom, and Charles W. Cheney.

No. 263. Corner Bridge street and Mammoth road. Keys at residences of Mrs. Hiram Turner, Andrew J. Johnson, A. D. Sherer, Harvey T. Corey, and city farm. (No key on box.)

No. 312. Corner of Putnam, Main, and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, and gate No. 11 mill.

No. 313. Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Potvin's drug store, Miville & Co.'s drug store, gate of No. 11 mill, and station of Engine and Ladder No. 6.

No. 314. Manchester Stocking Co., 'Skeag. Keys at office and Riverside Hose house.

No. 315. Old Brick store, 'Skeag. Keys at Riverside Hose house and D. Jameson's residence.

No. 321. Corner of Notre Dame avenue and Wayne street. Keys at Holy Angels convent, the Brothers' school, and residences of E. H. Doherty and Rev. Father Hevey.

No. 323. Corner of Putnam and Bartlett streets. Keys at P. J. Archambeault's bakery and residence of Mitchell Barry.

No. 324. Amory and Laval streets.

No. 325. Kelly and Cartier streets.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearns.

No. 512. Corner of Notre Dame avenue and Adams street. West Side.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

No. 521. Corner Parker and Winter streets.

No. 541. Corner of Boynton and Allen streets. Keys at residences of Herbert F. Dow, Patrick J. Connor, Charles Tinker, and Benjamin J. Mack.

No. 611. Corner of Hancock street and Boston & Maine Railroad. Keys at offices of True W. Jones' Brewery and Manchester Slaughtering and Rendering Works.



No. 711. Corner of Union and Grove streets.

No. 911. Corner of Union and Trenton streets. Keys at residences of Charles R. Hodge, C. S. Boynton, and Mrs. William R. Varick.

Also keys will be found in the hands of all regular police.

The true time will be given at precisely 12.30 P. M. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

### Fire Department Telephone Calls.

Chemical Engine, Central Station.....	94
Engine No. 2.....	84— 2
Engine and Ladder No. 3.....	84— 3
Engine and Ladder No. 5.....	64— 2
Engine and Ladder No. 6.....	84— 4
Engine No. 7.....	373
Hose No. 2.....	1616— 3
Hose No. 3.....	784—12
Combination No. 2.....	1616— 2
Chief Engineer Lane's office .....	94
Chief Engineer Lane's house .....	64— 4
Assistant Chief Provost's store.....	1342
Assistant Chief Provost's house.....	531— 2
Assistant Chief Fitzsimmons.....	1255—2
Assistant Chief Hammond.....	993— 4
Assistant Chief Merrill.....	517— 1

Two long rings twice call at all stations on the line rung.

### Instructions to Keyholders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the key of which is in a circular box attached to the right side of the fire-alarm box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Keyholders and others, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door, but do not try to remove the key, as it is locked in by a trap lock, and can only be removed with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if

you still hear no clicking, go to the next nearest box and give an alarm from that. **DON'T GIVE A SECOND ALARM** without instructions from an engineer, or officer in charge of the fire.

4. Never signal for fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no other cause than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same officer.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows,  $2\frac{1}{2}$  seconds apart, repeated three times. Box 212, two blows, pause of  $6\frac{1}{4}$  seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

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### Rules and Regulations in Regard to Responding to Fire Alarms, Etc.

The following rules have been adopted by the board of engineers and the fire department will strictly comply until otherwise ordered, and will attend alarms of fire as per **OFFICIAL RUNNING CARD.**

#### RUNNING RULES.

Whenever an alarm is sounded, the members of all companies not called to that box will report to their respective company quarters, and *there remain until dismissed* by the signal of the bells or by an engineer in charge.

In case companies on their first run have responded to an alarm, companies on their second run to the box from which the alarm has been sounded will answer all first-run boxes of the absent companies; and in case engines are out that would respond to another box, then third alarm companies will respond. In case of alarm from a box that does not call for a third alarm, companies on their second run will then answer to all other boxes.

Whenever two trucks answer to first alarm the other truck will answer to all other boxes.

At any time when an alarm of fire is given, the engine, hose carriage or truck that leaves the house first will have the right to lead to the fire. Whenever a horse lags or gives out, drivers should then

give others the right of way, so as not to delay the rest of the apparatus. NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

The drivers shall not permit persons not connected with the department to ride upon the apparatus, and in muddy weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

Drivers will take the following routes in responding to alarms on the West Side: For crossing Amoskeag bridge, take Elm street to Salmon, down Salmon and across the bridge. For crossing McGregor bridge take Elm street to Bridge street, down Bridge street and across the bridge. For crossing Granite bridge take Elm street to Granite, down Granite and across the bridge.

Use gongs freely to clear streets and when nearing crossings.

Engineers of steamers will not run over eighty (80) pounds of water pressure, except when orders are received from a member of the board of engineers or the officer in command of the company.

Captains or officers commanding companies will see that the rules and regulations of this department are adhered to; to report any inattention to duty or failure to comply with the rules, or any disobedience of orders, and upon return from alarms will report to headquarters immediately, personally or by telephone, after apparatus is "made up" and ready for duty.

#### SPECIAL CALLS ON FIRE ALARM.

When more apparatus is wanted, without giving second and third alarms the following special calls will be given:

2—1 for Engine 1.	3—3 for Truck 3.
2—2 for Engine 2.	3—5 for Truck 5.
2—3 for Engine 3.	3—6 for Truck 6.
2—4 for Engine 4.	4—1 for Hose 1.
2—5 for Engine 5.	4—2 for Hose 2.
2—6 for Engine 6.	4—3 for Hose 3.
2—7 for Engine 7.	4—4 for Combination 2.
1—1—1 for Aërial Truck.	

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

#### THIRD ALARM.

On THIRD ALARM all apparatus will respond.

#### GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEN BLOWS, in which case all companies will respond.

## OUT-OF-TOWN CALL.

For a fire out of the city or brush fire, 2—2—2, all companies will assemble at their respective quarters and await orders.

## ALL OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

The signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

## TEST SIGNAL.

One blow at 12.30 noon.

## SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's, closes all the schools.

Time for giving same, 7.30 A. M., 11.30 A. M., or 1.15 P. M.

## MILITARY CALL.

12 blows twice.

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Whistle Signals.

The following code of signals will be observed by members of the department:

FOR CAPTAIN, or officer in command of company, one long whistle.

FOR COAL, two long whistles followed by as many short whistles as indicate the number of the engine.

TO LIMBER UP, three long whistles.

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Rules for Exercising Horses.

It shall be the duty of the drivers of engines, hose carriages, hose wagons, hook and ladder trucks, and all other apparatus connected with this department, to exercise the horses every day, weather permitting, except Sunday, with the exception of engines having "first" and "second runs," and in such cases must exercise on days of "second run," the same to be done within the following limits:

## CENTRAL STATION.

North to Pearl street.

South to Merrimack street.

East to Union street.

West to Chestnut street.

## NORTH MAIN-STREET STATION.

North to Adams street.	East to Main street.
South to Granite street.	West to Dubuque street.

## LAKE AVENUE STATION.

North to Manchester street.	East to Belmont street.
South to Summer street.	West to Maple street.

## MAPLE-STREET STATION.

North to Myrtle street.	East to Linden street.
South to Hanover street.	West to Union street.

## WEBSTER-STREET STATION.

North to Clarke street.	East to Union street.
South to Pennacook street.	West to Elm street.

## RIMMON-STREET STATION (MCGREGORVILLE.)

North to Kelly street.	East to Beauport street.
South to Wayne street.	West to Rimmon street.

## BAKERSVILLE STATION.

North over B. & M. Railroad.	East to Calef road.
South to Baker street.	West to Brown avenue.

## WILSON HILL STATION.

North to Old Bridge street.	East to Mammoth road.
South to Hanover street.	West to Belmont street.

## SOMERVILLE-STREET STATION.

North to Valley street.	East to Jewett street.
South to Somerville street.	West to Wilson street.

Drivers must confine themselves to the above, and in no case take their horses beyond the prescribed limits, except for shoeing or in case of fire, without permission from the chief or assistant engineer.

In exercising, care must be taken to avoid colliding with other teams. In approaching corners, crossings, street car tracks, and in going down grades the speed of the horses must be checked.

In case of an alarm use gong freely while returning to quarters.

Any driver violating these rules will be liable to suspension or discharge.



### Stations and Sleeping Rooms.

All stations of this department will be open from 7 A. M. until 9 P. M., and the members at the several stations will receive visitors and citizens courteously, answer all questions in a gentlemanly manner, and give any proper attention.

No political or religious discussions will be allowed in any of the houses of this department or by the officers or men when on duty.

No permanent member of the department shall attend a caucus or political convention as delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise his right of suffrage.

Gambling of any kind shall not be permitted in or about any of the houses or premises occupied by the department.

Stations to be closed at 10 o'clock P. M.

All games must cease at 10 P. M., and the stations be closed at that hour, to permit the permanent men and those detailed to sleep in the station to retire undisturbed.

None of the stations will be open after the above hour (except in case of an alarm of fire) without permission of the chief or a member of the board of engineers, although stations may be kept open on Saturday evening until 11 o'clock. Any visitors present at time for closing stations will be courteously informed of the rules by the permanent men.

No spirituous or malt liquors shall be allowed in or about any of the fire stations, and any member of the fire department seen intoxicated at any fire or alarm of fire, or who shall be known to frequent places where liquors are sold, during the progress of a fire, or whenever in uniform, shall be subject to reprimand, or dismissal, as the board of engineers may determine.

Any permanent member visiting any liquor saloon in uniform, except in the performance of his duty as a member of the fire department, or who is intoxicated or visits places where intoxicating liquors are sold, while on duty, shall be suspended or discharged, as the board of engineers may determine.

Any violation of these rules will subject the offender to reprimand or dismissal, and commanding officers of companies having knowledge of the violation of the foregoing rules will suspend the offender, and report the same to the chief or board of engineers.

The permanent men shall exercise a careful supervision over the sleeping apartments, see that the rooms are put in order and the beds made as early as 11 o'clock A. M., and that the bedding is changed at suitable intervals. The occupants of each bed will be held responsible for the cleanliness of the same, and held strictly accountable for any damage to either bed or bed clothing through carelessness. After 10 P. M. occupants shall refrain from loud talking or in any manner disturbing the rest of any who have retired.



### Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or an assistant engineer (or the permanent captain in charge of his company), nor leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post, except on his regular "days off."

*Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.*

Substitutes running for and answering the names of any call man shall be entitled to the same pay, *pro rata*, as the call man for whom they answer for the time they substitute, and the clerks of the several companies shall keep said substitutes' time and notify the regular call man of the amounts due from him and pay said amount to the substitute performing said service.

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.

The hour of leaving will be 7 o'clock A. M., and members will not leave their station until the arrival of the spare driver. They must report *promptly at 7 o'clock* the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the dates of their "days off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire. Should a "general" or third alarm be rung while members are in town, they will be expected to report for duty on their days off.

## DAYS OFF.

*Until further notice, the Days off of the Permanent Men will be as follows:*

Day of Month.	NAME.	COMPANY.	Day of Month.	NAME.	COMPANY.
1-15	Hall.....	Engine 1.	8-25	Whitcomb....	Engine 2.
1-16	Collins.....	" 7.	9-23	Gage.....	Truck 1.
1-18	Hubbell.....	Hose 2.	9-26	Lane.....	Engine 2.
2-15	Worthen.....	" 2.	9-26	Lemay .....	Engine and Ladder 6.
2-16	Harvey.....	Engine 1.	10-24	Pherson.....	Truck 1.
2-17	Morrill, F. S.	" 7.	10-24	Duncan, R. H	Chemical 1.
3-17	Kemp .....	" 1.	10-27	Foster.....	Engine and Ladder 6.
3-18	Hebert.....	" 7.	11-28	Gustafson....	Combination 2.
3-20	Tuson.....	Engine and Ladder 5.	11-25	Harris.....	Chemical 1.
4-18	*Rogers, C. H.	Hose 1.	11-28	Cot.....	Engine and Ladder 6.
4-19	*Rogers, G. N.	Engine 7.	12-26	Richardson ..	Chemical 1.
4-21	*Cann, B. C....	Engine and Ladder 5.	12-27	Crosby.....	Combination 2.
5-19	Gould ....	Engine 4.	12-29	*St. John.....	Engine and Ladder 6.
5-20	Duncan, J. T.	Substitute Driver.	13-27	Walker.....	" " " 3.
5-22	Rowe.....	Engine and Ladder 5.	13-30	Maynard.....	" " " 6.
6-20	Cann, G. A...	Engine 4.	13-30	Tebbetts ....	Hose 3.
6-23	Edgar.....	" 2.	14-28	Piper.....	Engine and Ladder 3.
6-23	Bryant.....	Engine and Ladder 5.	14-29	Nute	Substitute Driver.
7-19	Morse.....	" " " 5.	14-31	*Smith, A. W..	Hose 3
7-21	Parsons.....	Engine 4.	15-29	*Dunbar.....	Engine and Ladder 3.
7-24	Smith, E. H.	Engine 2.	16-30	*McLeod.....	" " " 3.
8-21	Ford.....	Substitute Driver.	17-31	*Porter	" " " 3.
8-22	Dyer.....	Truck 1.			

\* In February St. John will take 16; Dunbar 24 instead of 29, and McLeod 25 instead of 30. For July 4:—C. H. Rogers, G. N. Rogers, B. C. Cann, to be arranged for. In February, April, June, September and November, Capt. Porter will take 1, and Capt. Smith 27.

## Entering Building with Line of Hose.

All steamer and hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property, due care being exercised as to whether their services are needed.

Extra care should be exercised by hosemen of steamer companies in using "shut-off" nozzles, shutting off to be slowly and gradually.

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### List of Fires and Alarms Responded to During 1908, Loss and Insurance.

STILL. Friday, January 3, 10 A. M. Chimney fire in cottage house, 386 Merrimack street, owned and occupied by J. L. Golden. Responded to by Assistant Chief Merrill. Used one pony extinguisher.

STILL. Saturday, January 4, 10.15 P. M. McGregor bridge across the Merrimack river at foot of Bridge street. Cause, cross of the arch circuit of electric lights. No damage. Chemical engine responded. Used one tank.

STILL. Sunday, January 5, 4 P. M. Two-story dwelling-house, 302 Cartier street, owned by M. R. Maynard, and occupied by two families. Cause, overheated furnace. Members of Engine and Ladder Company No. 6 responded. Service not required.

STILL. Sunday, January 5, 5.20 P. M. Ten-tenement wooden block, 242 East High street, owned by J. Warren Batchelder, and occupied by M. W. Worthen and others. Cause, chimney. Members of Hose Company No. 2 responded. No service required.

STILL. Sunday, January 5, 5.40 P. M. Chimney fire in cottage house, 98 Winter street, owned and occupied by Mrs. Sarah Gannon. Members of Engine Company No. 2 responded. Used two pony extinguishers.

Box 218. Sunday, January 5, 9.56 P. M. Chimney fire in cottage house, 621 Somerville street, owned by George Southwick, and occupied by A. L. Burdick. Box pulled by citizen. Companies responding, Engines 1, 3, Hose 2, Combination 2, Truck 3.

STILL. Monday, January 6, 2.45 A. M. Chimney fire in cottage house, 303 Jewett street, owned and occupied by Charles Cooley. Members of Engine and Ladder Company No. 3 responded. Used one pony extinguisher.

STILL. Monday, January 6, 5.47 A. M. Two and half-story dwelling, 106 Pearl street, owned by P. Scollard, and occupied by Alphonse St. Germaine. Cause, rats and matches in partition. Chemical engine responded. Used one chemical tank. Value of building, \$3,000; damage, \$18; insurance, \$2,000; insurance paid, \$18. No damage to contents.

Box 321. Monday, January 6, 3.50 P. M. Three-story wooden building, Notre Dame Hospital, Notre Dame avenue, corner Wayne street, owned by the Order of Gray Nuns, and occupied by them as a hospital. Cause, lamp on Christmas tree in kindergarten room. Box pulled by citizen. Companies responding, Engines 2, 6, Hose 1, Trucks 1, 6. Value of building, \$25,000; damage, \$630; insurance, \$17,000; insurance

paid, \$627.50. Value of contents, \$8,000; damage, \$70; insurance, \$5,000; insurance paid, \$69.50.

STILL. Friday, January 10, 9.22 A. M. Chimney fire in dwelling-house, 318 North Main street, owned by Nelson Duval of Pittsfield, and occupied by James Duval. Members of Engine Company No. 2 responded, with Combination wagon. Used one pony extinguisher.

STILL. Friday, January 10, 5.10 P. M. Three-story wooden tenement block, 154 Bridge street, owned by Cavanaugh & Shea, and occupied by James Kennedy. Cause, smoke from wood in stove oven. Members of Chemical Company responded. No service required.

STILL. Friday, January 10, 6.15 P. M. Dwelling-house, 106 Lake avenue, owned and occupied by P. Gibling. Cause, chimney. Chemical engine responded. Used one pony extinguisher and one chemical tank.

Box 911. Friday, January 10, 9.40 P. M. Small barn on Arah street, owned by Robert Clark, and occupied by him for storage. Cause, incendiary. Box pulled by Walter Gamble. Companies responding, Engine 5, Chemical, Hose 1, Truck 5. Value of building, \$250; damage, \$250; insurance, \$200; insurance paid, \$200. Value of contents, \$300; damage, \$300; no insurance.

STILL. Saturday, January 11, 10.36 A. M. Four-story brick block, 970 Elm street, owned by Weeks & Young heirs, and room 9 occupied by Sarah Dugas. Cause, kerosene oil stove. Chemical engine responded. Service not required.

Box 21. Saturday, January 11, 7.50 P. M. Two-and-a-half-story wooden tenement block, 122 Merrimack street, owned by Mrs. P. T. Kean, and occupied by Joseph Peroski, and others. Cause, lamp explosion. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Extinguished before arrival of apparatus.

STILL. Sunday, January 12, 12.21 M. Three-story brick block, 9 Lowell street (Martin's block), owned by estate of A. F. Perry, and occupied by Eames Drug Co. and others. Cause, wood piled too close to boiler, ignited. No damage. Chemical engine responded. Used one chemical tank.

STILL. Sunday, January 12, 4.42 P. M. Chimney fire in tenement house, 135 Laurel street, owned by George A. Bailey, and occupied by L. J. Eaton. Chemical engine responded. Used one pony extinguisher.

Box 4. Tuesday, January 14, 8.13 P. M. Chimney fire in wooden tenement block, 25 Spruce street, owned by Daniel J. Ahern and others. Box pulled by a Greek. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Wednesday, January 15, 4.45 P. M. Dwelling-house, 4 Bethel Court, owned by C. R. Crossett, and occupied by C. G. Brugger. Caused from gas jet. No service required.

STILL. Friday, January 17, 7.20 P. M. Three-story wooden tenement block, 46 Vine street, owned by the Stark Mills, and occupied by

Joseph Bellevue and others. Cause, tipping over of lantern. Members of Chemical Company responded. No service required.

STILL. Saturday, January 18, 5.20 P. M. Three-story tenement house, 370 Cartier street, owned by Antoine Beaulic, and occupied by him and two other families. Cause, lamp explosion. Members of Engine and Ladder Company No. 6 responded. No service required.

STILL. Saturday, January 18, 5.25 P. M. Chimney fire in tenement house, 183 Turner street, owned by Walter H. Underwood, and occupied by several families. Members of Engine Company No. 2 responded. Used one pony extinguisher.

STILL, Saturday, January 18, 11.18 P. M. Chimney fire in four-story block, Webster block, 1,306 Elm street, owned by Kennedy, Connor heirs and others, and occupied by Chadwick & Cashin. Chemical engine responded. Used one pony extinguisher.

STILL. Saturday, January 18, 11.45 P. M. Grass fire, corner Canal and Pennacook streets, on land owned by B. & M. R. R. and Amoskeag Manufacturing Company, caused by spark from locomotive. Chemical engine responded. Used one chemical tank.

STILL. Sunday, January 19, 1.08 P. M. Chimney fire in tenement house, 485 North Main street, owned by heirs of W. Q. Sargent, and occupied by several families. Members of Engine Company No. 2 responded with Combination wagon. Used one pony extinguisher and one chemical tank.

STILL. Sunday, January 19, 6.50 P. M. Rubbish in rear of 17 Elm street, owned by E. M. Slayton. Hose Company No. 3 responded. Used one pony extinguisher.

STILL, Monday, January 20, 9.15 A. M. Chimney fire in tenement house, 317 Central street, owned by Edgerly & Whittier, and occupied by George Gott. Members of Engine and Ladder Company No. 3 responded. Used two pony extinguishers.

STILL. Monday, January 20, 1.05 P. M. Grass fire at Stark park. Cause, sparks from B. & M. locomotive. Members of Engine and Ladder Company No. 5 responded with hose carriage.

STILL. Monday, January 20, 6 P. M. Putnam street, city dump. Members of Engine and Ladder Company No. 6 responded with hose carriage. Laid 600 feet hose from hydrant. On duty one hour.

Box 3. Monday, January 20, 7 P. M. Three-and-a-half-story wooden tenement block, 122 Willow street, owned by Freeman Higgins, and occupied by Himan Moses and others. Cause, tipping over of kerosene lamp, burning child slightly. No damage to building. Box pulled by citizen. Engines responding, Engines 3, 4, 7, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Wednesday, January 22, 1.05 P. M. Brush fire on "scrub" land, on North River road, adjoining Stark schoolhouse lot, owned by the Manchester Realty Company. Members of Engine and Ladder



Company No. 5 and delegation from Central station responded. Used four pony extinguishers. No damage.

STILL. Wednesday, January 22, 6 P. M. Chimney fire in cottage house, 322 Central street, owned and occupied by Mrs. James S. Bachelder. Members of Engine and Ladder Company No. 3 responded. Used two pony extinguishers and garden hose.

STILL. Wednesday, January 22, 7.55 P. M. Chimney fire in nine-tenement block, 394 Belmont street, owned by Andrew B. Bunton, and occupied by Myron W. Hazeltine and others. Members of Engine and Ladder Company No. 3 responded. Used three pony extinguishers.

Box 21. Thursday, January 23, 2.02 P. M. Cottage house, 167 Lake avenue, owned by Charles E. Cox and occupied by Wm. Wentworth. Cause, breaking of lamp. The Chemical engine was on its way in response to a "still" when some one needlessly pulled the box. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Extinguished by Chemical. Used one pony extinguisher. Value of building, \$2,250; damage, \$7.35; insurance, \$1,500; insurance paid, \$7.35. Value of contents, \$1,100; damage, \$33; insurance, \$500; insurance paid, \$25.

STILL. Thursday, January 23, 4.50 P. M. Grass fire on east side of Elm street, above Clarke street, owned by M. V. B. Edgerly heirs. Members of Engine and Ladder Company No. 5 responded. Used 150 feet hose from hydrant.

STILL. Thursday, January 23, 5.05 P. M. Grass fire in the "Bell" orchard on Hanover street, beyond Paige street, owned by estate of John J. Bell. Members of Engine and Ladder Company No. 3 responded with hose wagon. Extinguished before arrival of detail.

Box 5—Box 4. Thursday, January 23, 11.32 P. M., 11.42 P. M. One-story wooden building, corner Elm and West Central streets, owned by heirs of E. W. Harrington and H. D. Corliss, and occupied by Welcome Jencks & Company, liquor saloon, Luigi Bacigalupo, fruit store, G. F. Howe, jeweler, D. M. Poore, coal and wood, E. W. Poore, paints, oils, etc., Hohman & Bartlett, liquor dealers. The fire originated in saloon of Jencks & Company from some unexplained cause. Box pulled by Officers O'Malley and Pitman, pulled boxes 4 and 5 almost simultaneously. Companies responding, Engines 1, 2, 3, 4, 5, 6, Chemical, Hose 1, 2, 3, Trucks 1, 3, 5, 6. Value of building, \$4,000; damage, \$4,000; insurance, \$3,000; insurance paid, \$3,000.

	Jencks.	Bacigalupo.	Howe.	D. M. Poore.	E. W. Poore.	Hohman & Bartlett.
Value of contents..	\$7,500	\$15,000.00	\$4,000	\$130	\$3,000.00	\$6,000
Damage .....	7,500	1,100.00	374	24	782.45	500
Insurance .....	4,632	4,000.00	2,000	none	2,000.00	3,000
Insurance paid.....	4,362	675.54	374	"	782.25	480



STILL. Monday, January 27, 8.30 A. M. Chimney fire in dwelling-house, 154 Manchester street, owned and occupied by Nicholas Sophilas. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Monday, January 27, 11.07 P. M. Chimney fire in dwelling-house, 213 Silver street, owned by Mrs. Edward Ahern, and occupied by two families. Hose Company No. 3 responded. Used two pony extinguishers and 40 feet ladders.

Box 21. Tuesday, January 28, 6.48 P. M. Chimney fire in three-story wooden tenement block, 62 Laurel street, owned by Michael Kearns, and occupied by several families. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Used one pony extinguisher and one large tank.

Box 23. Wednesday, January 29, 3.06 A. M. A barn used for storage of rags and junk, 405 Union street, owned by Ann Devine, and occupied by Louis Spectre. Cause unknown. Damage, \$5. Box pulled by Officer O'Malley. Companies responding, Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

Box 313. Wednesday, January 29, 7.08 P. M. Three-story wooden tenement block, 18 Amory street, owned by William White, and occupied by several families. Cause, lamp explosion. Box pulled by citizen. Companies responding, Engines 1, 2, 6, Hose 1, Trucks 1, 6. No service required.

STILL. Wednesday, January 29, 7.30 P. M. Chimney fire in four-story wooden tenement block, North Main street, owned by George Blanchet, and occupied by several families. Members of Engine and Ladder Company No. 6 responded with hose carriage. No service required.

STILL, Thursday, January 30, 3.57 A. M. Chimney fire at 37 Laurel street, owned by Nason Hall, and occupied by Wallace Dufrain. Chemical engine responded. Used one pony extinguisher.

STILL. Thursday, January 30, 6.05 A. M. Chimney fire at 124 Merri-mack street, owned by V. Boisvert, and occupied by Peter Paroski. Chemical engine responded. Used one pony extinguisher.

STILL. Thursday, January 30, 8.03 A. M. Brick-tenement block, 45 Market street, owned by Amoskeag Manufacturing Company, and occupied by L. D. Goddard. Cause, defective chimney. Chemical engine responded. Damage slight. Used one pony extinguisher.

STILL. Thursday, January 30, 11.25 A. M. Two-story dwelling-house, 478 Notre Dame avenue, owned and occupied by F. T. Provost. Chimney fire. Members of Engine and Ladder Company No. 6 responded. Used three pony extinguishers.

STILL. Thursday, January 30, 6.45 P. M. Chimney fire in three-story wooden tenement block, 483 North Main street, owned by W. Q. Sargent estate and occupied by Alex Chagnon and others. Members of Engine and Ladder No. 6 responded. Used three pony extinguishers.

STILL. Thursday, January 30, 6.50 P. M. Chimney fire in wooden tenement block, 55 Amherst street, owned by Mrs. Frank Boyd, and occupied by Nap. Descoteau and others. Chemical engine responded. Used one chemical tank and two pony extinguishers.

STILL. Thursday, January 30, 10.04 P. M. Chimney fire in three-story tenement house, 608 North Main street, owned by Dr. J. A. Jackson estate, and occupied by three families. Members of Engine and Ladder Company No. 6 responded. Used one pony extinguisher.

STILL. Friday, January 31, 9.35 A. M. Dwelling-house, 212 Douglas street, owned by Wm. McElroy, and occupied by Lorenz Drescher. Cause, thawing water pipes. Damage slight. Members of Engine Company No. 2 responded with Combination wagon. Used one pony extinguisher.

STILL. Friday, January 31, 12.10 M. Wooden tenement block, 7 Barr street, owned by Fred G. Stark, and occupied by several families. Cause, hot chimney. Members of Engine Company No. 2 responded with Combination wagon. Used one chemical tank and one pony extinguisher.

STILL. Friday, January 31, 2.42 P. M. Chimney fire in four-story wooden tenement block, rear 563 Elm street, owned by C. H. Baroody, and occupied by Exzier Parent and others. Chemical engine responded. Used two pony extinguishers.

STILL. Saturday, February 1, 8.30 P. M. Cottage house, 24 Front street, owned by Amoskeag Manufacturing Company and occupied by William Burke. Slight fire in bedroom extinguished by occupants before arrival of men. Members of Engine and Ladder Company No. 5 responded with hose carriage.

STILL. Sunday, February 2, 6.30 P. M. Two-story brick dwelling, 37 Canal street, owned by Stark Manufacturing Company, and occupied by A. Jaff. Cause, slight fire in partition. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Sunday, February 2, 6.49 P. M. Chimney fire in dwelling-house, 184 Manchester street, owned and occupied by Delphina Gilroy. Members of Chemical Company responded. No service required.

STILL. Tuesday, February 4, 5.45 P. M. Chimney fire in five-tenement wooden block, 493 Maple street, owned by William Corey, and occupied by Daniel Drowne and others. Members of Hose Company No. 2 responded. No service required.

Still. Tuesday, February 4, 6.45 P. M. Chimney fire in two-and-a-half-story tenement house, 66 Concord street, owned by heirs of S. W. Parsons, and occupied by Octag Strauss and others. Members of Chemical responded. Used one pony extinguisher.

STILL. Tuesday, February 4, 7.10 P. M. Chimney fire in four-story brick block, rear 20 Birch street, owned by J. Adam Graf, and occupied by Jacob Soviss and others. Members of Chemical Company responded. No service required.

Box 71. Wednesday, February 5, 8.49 A. M. Chimney fire in two-and-a-half-story tenement house, 179 Pine street, owned by Nicholas Bolton, and occupied by Lewis Wood and Dennis Griffin. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Truck 3. No damage.

STILL. Wednesday, February 5, 12.05 M. Slight fire on sheathing in brick block, 22 Manchester street, owned by Harry G. Clough, and occupied by Sam Clough as an eating saloon. Cause, gas jet. Chemical engine responded.

STILL. Friday, February 7, 4.40 P. M. Chimney fire in tenement block, 452 Chestnut street, occupied by Nezaire Bourque and others. Members of Chemical Company responded. Used one pony extinguisher.

Box 15. Friday, February 7, 4.53 P. M. Two-and-a-half-story tenement house, 73 Orange street, owned by Eliza Creighton, and occupied by several families. Fire in rubbish in cellar, caused by matches. No damage. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 5. Saturday, February 8, 12.19 A. M. Three-story brick block, 708 Elm street, owned by Rowell & Jones, and occupied by Paul Ratner as furniture store. Cause, varnished furniture too near an overheated stove. Box pulled by officer. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Truck 1. Extinguished by Chemical. No damage to building. Value of contents, \$17,368; damage, \$485.79; insurance, \$9,400; insurance paid, \$485.79.

Box 4. Saturday, February 8, 12.37 A. M. Some excited individual pulled the box while the apparatus was at previous fire. Companies responding, Engines 1, 2, 7, Hose 2, Combination 2.

STILL. Saturday, February 8, 9.50 A. M. In response to telephone message, sent Engine 3 and hose wagon with delegation of men from that company and at Central Station to Massabesic for fire in cottage house of Mrs. George McPherson in Auburn. Laid 650 feet hose.

STILL. Saturday, February 8, 7.03 P. M. Chimney fire in tenement house, 34 Lake avenue, owned by D. Shanahan, and occupied by Jean B. Pellerin. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Sunday, February 9, 4.50 P. M. Chimney fire in tenement block, 426 Granite street, owned by Hanson R. Armstrong, and occupied by several families. Members of Engine Company No. 2 responded with Combination wagon. Used one pony extinguisher and one chemical tank.

STILL. Monday, February 10, 6.10 P. M. One-story wooden building, 14 West Central street, owned by Harrington & Corliss heirs, undergoing repairs. Cause, overheated "salamander," stoves used for "drying out." No service required.

Box 12. Monday, February 10, 6.22 P. M. Two-story wooden dwell-

ing-house, 763 Chestnut street, owned and occupied by James A. Wellman. Cause unknown. Box pulled by citizen. Companies responding, Engine 5, Chemical, Hose 1. Value of building, \$7,000; damage, \$3,760; insurance, \$5,000; insurance paid, \$3,760. Value of contents, \$3,000; damage, \$880; insurance, \$2,500; insurance paid, \$880.

Box 12. Monday, February 10, 8.45 P. M. Rekindling of previous fire from sparks in partition. Delegation of Engine and Ladder Company No. 5 were at fire on a "still" and ordered a box alarm. Companies responding, Engine 5, Chemical, Hose 1.

STILL. Monday, February 10, 11.45 P. M. Electric wires at the Wellman residence, having had the insulation burned off by the fire a few hours before, caused slight fire under the hall floor. Members of Engine and Ladder Company No. 5 responded with hose carriage. Used one pony and laid 300 feet hose from hydrant.

STILL. Thursday, February 13, 12.40 A. M. One-story wooden building, 39 Amherst street, owned by Dennis Dowd, and occupied by Dowd Bros. as a liquor saloon. Cause, cigar stub on floor, among sawdust. Damage slight. Members of Chemical Company responded. Used two pony extinguishers.

STILL. Saturday, February 15, 3.45 P. M. Four-story brick building on Willow street, owned by Cohas Building Company, and occupied by the McElwain Shoe Company for manufacture of shoes. Cause, ignition of gasoline around a trimming machine. No damage. Hose Company No. 3 responded. No service required.

Box 82. Saturday, February 15, 10.29 P. M. Three-story wooden block, 1161 Elm street, owned by the heirs of J. R. Weston and H. G. Connor. Cause, tipping over of kerosene lamp by Joseph Pichette, in tenement occupied by Eugenia Doncourse. Pichette was so badly burned that he died a few hours after removal to hospital. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$4,000; damage, \$16; insurance, \$2,250; insurance paid, \$16. Value of contents, \$400; damage, \$15; no insurance.

STILL. Monday, February 17, 1.20 A. M. Chimney fire in tenement house, 411 Pine street, occupied by A. Levesque and others. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Tuesday, February 18, 9.10 P. M. In answer to a telephone message Chemical engine responded at corner Hanover and Pine streets, but could find no fire or any information pertaining to one.

STILL. Monday, February 24, 5.40 P. M. Chimney fire in cottage house, 386 Merrimack street, owned and occupied by J. L. Golden, Assistant Chief Merrill responded. Used one pony extinguisher.

STILL. Monday, February 24, 9.15 P. M. Three-and-a-half-story wooden school building, corner Wayne and Cartier streets, owned by St. Marie's parish, and occupied as Brothers' school for boys. Cause, rags in water-closet; supposed to have been set by cigarettes. Mem-



bers of Engine and Ladder Company No. 6 responded with hose carriage.

STILL. Tuesday, February 25, 7.20 P. M. Chimney fire in two-story wooden dwelling, 79 Putnam street, owned by Patrick Costello, and occupied by two families. Members of Engine and Ladder Company No. 6 responded.

STILL. Wednesday, February 26, 5.30 A. M. Chimney fire in three-story wooden block, 479 North Main street, owned by estate of W. Q. Sargent, and occupied by six families. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used two pony extinguishers.

STILL. Thursday, February 27, 8.30 P. M. Two-and-a-half-story wooden building in process of construction on East High street, corner Belmont, owned by Dr. J. H. Gleason. Cause, smoke from stoves drying plastering caused alarm to passers-by. Combination Company No. 2 responded. No service required.

Box 243. Friday, February 28, 3.15 A. M. Cottage house, corner Broadway avenue and Farmer street, owned by Henry C. Boyers, and occupied by Margaret and Annie Ellis. The fire originated upstairs from some unknown cause. Box pulled by citizen. Companies responding, Engine 7, Combination 2, Truck 3. Value of building, \$1,500; damage, \$1,500; insurance, \$950; insurance paid, \$950. Value of contents, \$2,000; damage, \$2,000; insurance, \$1,500; insurance paid, \$1,500.

STILL. Friday, February 28, 6.58 A. M. Chimney fire in cottage house, 748 Pine street, owned and occupied by Charles B. Tucker. Members of Engine and Ladder Company No. 5 responded. Used one pony extinguisher.

STILL. Friday, February 28, 7.27 P. M. Chimney fire in four-story tenement block, Washington block, owned by Mr. Currier and others. Members of Chemical Company responded. No service required.

STILL. Saturday, February 29, 10.40 A. M. Chimney fire in two-and-a-half-story wooden tenement house, 60 Bridge street, owned by Mrs. Frances M. West, and occupied by Lane and Lessard. Chemical engine responded. Used one pony and one tank.

Box 6. Saturday, February 29, 5.18 P. M. Two-story brick stable, 44 Manchester street, owned by estates of James Brothers, and occupied by Brooks & Vogel. Cause, stove pipe separating, filling room with smoke. Box pulled by citizen. No service required. Companies responding, Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 5.

Box 213. Tuesday, March 3, 9.28 P. M. Small cottage house corner Maple street and Cilley road, owned by Mitchel Gagne and occupied by Homer St. Denis. Cause, lamp explosion. Box pulled by citizen. Companies responding, Engines 3, 7, Chemical, Hose 2, 3, Truck 3. Value of building, \$600; damage, \$400; no insurance. Value of contents, \$400; damage, \$297; insurance, \$300; insurance paid, \$297.

STILL. Thursday, March 5, 10.50 A. M. False alarm. Telephone calls from Central and Pine streets. Chemical engine responded.

STILL. Thursday, March 5, 4.32 P. M. Cottage house, 128 Belmont street, owned and occupied by Moses Morey. Cause, hot pot on stove; filled house with smoke. Members of Engine Company No. 7 responded.

STILL. Thursday, March 5, 8.45 P. M. Three-story wooden tenement block, 1221-1223 Elm street, owned by Fred K. Ramsey and Mrs. C. M. Bailey, and occupied by Mrs. Isabella Gerrard and Thomas Warren as boarding houses. Cause unknown. Members of Chemical Company responded.

Box 8. Thursday, March 5, 8.56 P. M. While the Chemical Company was working on foregoing fire Assistant Engineer Merrill pulled box 8, seeing the fire would get beyond their control. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Extinguished with chemical engine. Value of building, \$5,000; damage, \$336.92; insurance, \$5,000; insurance paid, \$336.92. Value of contents, \$1,000; damage, \$20; no insurance.

STILL. Thursday, March 5, 10.16 P. M. Sparks from the foregoing fire. Chemical engine responded. Used pony extinguisher.

STILL. Friday, March 6, 5.30 P. M. Chimney fire in tenement house, 335 Pearl street, owned by Walker heirs, and occupied by Mr. Boisclair. Members of Chemical Company responded. Used two pony extinguishers.

STILL. Monday, March 9, 9 P. M. Chimney fire in two-and-a-half-story tenement house, 36 Concord street, owned by Dennis Dowd, and occupied by Steve Perock. No service required.

STILL. Saturday, March 14, 10.30 A. M. Chimney fire in tenement block, 199 Lake avenue, owned by Isaac Sperock and occupied by Simon Katz and others. Chemical engine responded. Used one pony extinguisher and one tank.

STILL. Thursday, March 19, 6.12 P. M. Chimney fire in tenement house, 208 Manchester street, owned by Mrs. McKenna, and occupied by Jerry Bresnahan. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Sunday, March 22, 4.12 P. M. Four-story brick block, 48 Hanover street, owned by Manchester National & Savings Banks, and occupied by Knights of Honor Lodge as a meeting hall. The fire was confined to the partition between the anteroom and the hall. Caused probably from cigarette or cigar stub. Chemical engine responded. Value of building, \$65,000; damage, \$150; insurance, \$37,000; insurance paid, \$150. No damage to contents.

STILL. Sunday, March 22, 6.30 P. M. Chimney fire in dwelling-house, 18 Brook street, owned and occupied by George H. Brown. Members of Engine and Ladder Company No. 5 responded with hose carriage. Used two pony extinguishers.



STILL. Monday, March 23, 7.40 P. M. Chimney fire in tenement house, 50 West street, owned by H. R. Armstrong, and occupied by three families. Members of Engine Company No. 2 responded with Combination wagon. Used two pony extinguishers and one chemical tank.

STILL. Friday, March 27, 3.10 P. M. Three-story wooden tenement block, 130 Spruce street, owned by Mrs. Leclerc, and occupied by Aaron Litvinhook and others. Cause, ignition of naphtha. No damage. Chemical engine responded. No service required.

Box 71. Sunday, March 29, 1.45 P. M. Chimney fire in three-story tenement house, 132 Auburn street, owned by Wm. F. Harrington, and occupied by Jeremiah Kane and others. Box pulled by boy. Companies responding, Engines 1, 3, Chemical, Hose 1, 3, Truck 3. Needless alarm.

STILL. Monday, March 30, 5.10 P. M. Two-story dwelling-house, 172 Belmont street, owned and occupied by Rev. Louis J. A. Doucet. Cause, smoky furnace. Members of Engine Company No. 7 responded.

Box 7. Tuesday, March 31, 2.31 P. M. Three-story wooden building, 137 Hanover street, owned by Drake & Carpenter heirs, and occupied by Joseph H. Geisel as a laundry. Cause, overheated boiler flues. Box pulled by citizen. Companies responding. Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Damage, \$5; fully insured.

STILL. Tuesday, March 31, 10.50 P. M. Night-lunch cart, corner Elm and Merrimack streets, owned and occupied by Henry Lord. Cause, leakage of gasoline. No damage. Chemical engine responded. No service required.

STILL. Wednesday, April 1, 10 A. M. Grass fire corner Belmont street and Portsmouth R. R. branch, owned and occupied by L. B. Bodwell & Co. Cause, set by small boy. Members of Engine and Ladder No. 3 responded.

STILL. Wednesday, April 1, 11.30 A. M. Brush and grass fire at 1093 Union street, owned and occupied by Charles A. Shannon. Members of Engine and Ladder Company No. 5 responded. Used two pony extinguishers.

STILL. Wednesday, April 1, 12.15 M. Chimney fire in tenement house, 66 Concord street, owned by Parsons heirs, and occupied by Edwin St. Cyr and others. Members of Chemical Company responded.

STILL. Wednesday, April 1, 1.05 P. M. Grass fire on North Chestnut street, near Clarke street, owned by W. G. Everett and W. E. Murkland. Members of Engine and Ladder Company No. 5 responded.

STILL. Wednesday, April 1, 3.30 P. M. Brush fire on Brown avenue, near Goffe's Falls, owned by James Thompson of Hooksett. Cause, burning brown-tail moth nests. Hose Company No. 3 responded.

STILL. Wednesday, April 1, 9.20 P. M. Smoking chimney in tenement house, 235 Lake avenue, owned by Dennis J. Dowd, and occupied by Mrs. Vailley. Members of Chemical Company responded.

Box 312. Wednesday, April 1, 10.29 P. M. Two-and-a-half-story double tenement house, 239 Notre Dame avenue, owned by H. N. Bond, occupied by George Howard and John Yuill. Cause, unknown. Box pulled by Levi Lavoie. Companies responding, Engines 2, 4, 6, Hose 1. Trucks 1, 6. Value of building, \$2,500; damage, \$435.95; insurance, \$1,750; insurance paid, \$435.95. Value of contents, \$190; damage, \$10; insurance, \$300; insurance paid, \$40.

Box 315. Friday, April 3, 9.55 A. M. Chimney fire in two-story wooden dwelling-house, 329 Front street, owned by Mrs. Charles Stearns, and occupied by Charles Mead. Box pulled by citizen. Companies responding, Engines 5, 6, Chemical, Truck 6. Used two pony extinguishers.

STILL. Friday, April 3, 6.30 P. M. Chimney fire in three-story wooden tenement house, 485 Rimmon street, owned by Mrs. Anastasie Gariepy, and occupied by three families. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used two pony extinguishers.

STILL. Saturday, April 4, 11.34 A. M. Grass fire on Maple street, north of Valley street, on land owned by Amoskeag Manufacturing Company, and occupied by Manchester Baseball Association. Cause, boys. Chemical engine responded. Used one pony and one chemical tank.

STILL. Saturday, April 4, 12.42 P. M. Chimney fire in dwelling-house on Nutt road, owned and occupied by Bridget Cahill. Hose Company No. 3 responded. Used two pony extinguishers.

STILL. Saturday, April 4, 1.15 P. M. Grass fire on Mammoth road, on the city farm. Combination Company No. 2 responded.

STILL. Saturday, April 4, 3 P. M. Grass fire on land of the Amoskeag Manufacturing Company, south of gas works. Hose Company No. 3 responded.

STILL. Saturday, April 4, 6 P. M. Brush fire on Bridge street extension, on land owned and occupied by Philip Garon. Combination Company No. 2 responded.

STILL. Sunday, April 5, 8 A. M. Grass fire on Hanover street, on land owned and occupied by J. Franklyn Willey. Combination Company No. 2 responded.

2—2—2. Sunday, April 5, 1.14 P. M. A telephone message reported a fire in the vicinity of Lake Shore and Proctor roads, but when delegation from companies was ready to start, word was received that services were not required.

STILL. Sunday, April 5, 2 P. M. Brush fire on Bridge street extension on land owned and occupied by — Willey. Combination Company No. 2 responded.

STILL. Tuesday, April 7, 10.15 A. M. Grass and brush fire on Brown avenue, on land owned by Gerrish & Emerson, burning over about

ten acres. Cause, sparks from B. & M. locomotive. Hose Company No. 3 responded.

STILL. Tuesday, April 7, 7.40 P. M. Brush fire on North Union street, on land owned by the Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 5 responded.

STILL. Friday, April 10, 11.37 A. M. Grass fire at corner Baker and Willow streets, on land owned and occupied by T. McKenna. Cause, burning brush, endangering barn. Hose Company No. 3 responded. Laid 350 feet hose from hydrant.

STILL. Friday, April 10, 12.55 P. M. Brush and grass fire on Brown avenue, west of Mrs. Cassius Webster's and L. Poor's. Cause, sparks from B. & M. locomotive. Hose Company No. 3 responded.

STILL. Friday, April 10, 5.05 P. M. Two-tenement wooden dwelling, 541 Somerville street, owned by Alfred Cote and occupied by two families. Cause, old rags. Members of Engine Company No. 7 responded.

STILL. Saturday, April 11, 1.30 P. M. Grass fire on Glover street, west of Brown avenue, owned by Peter Mitchell. Cause, sparks from B. & M. locomotive. Hose Company No. 3 responded.

STILL. Saturday, April 11, 1.45 P. M. Brush fire on Boynton street, on land owned by John K. McQuesten and others. Cause, set by boys. Members of Engine Company No. 2 responded with Combination wagon.

STILL. Sunday, April 12, 10.15 A. M. Chimney fire in two-and-a-half-story wooden dwelling-house, 102 Walnut street, owned by estate of David Thayer, and occupied by Charles S. Thayer and others. Members of Hose Company No. 2 responded. Used two pony extinguishers.

STILL. Sunday, April 12, 12.30 P. M. Brush and railroad ties in B. & M. R. R. yard, west of Jones' Brewery. Hose Company No. 3 responded. Laid 500 feet hose from hydrant. Cause unknown.

2—2—2. Sunday, April 12, 2.53 P. M. Brush fire on Weston road, near Huse road. Engine Company No. 4, with supply wagon and delegations from other companies, responded, but on arrival at fire found a delegation from Engine Company No. 7 had preceded them and had fire under control.

STILL. Sunday, April 12, 3.05 P. M. Grass fire on North River road, on land of B. & M. R. R., west of Stark school. Members of Engine and Ladder Company No. 5 responded.

STILL. Sunday, April 12, 3.10 P. M. Grass fire in Stark park, owned by city of Manchester. Members of Engine and Ladder Company No. 5 responded. Used two pony extinguishers.

STILL. Sunday, April 12, 4.30 P. M. Brush fire on land of Albert Huntress, west of Huntress street. Cause, set by boys. Members of Engine Company No. 2 responded.

STILL. Sunday, April 12, 6.58 P. M. Grass fire on land west of 122 South Beech street, owned by Norman Smith. Cause, sparks from

B. & M. R. R. locomotive. Hose Company No. 3 responded. Used one pony extinguisher.

STILL. Sunday, April 12, 8.30 P. M. Wooden dwelling-house, 653 South Main street, owned by heirs of P. W. Brown, and occupied by William N. Brown. Cause, dropping match set fire to contents of bedroom. Members of Engine Company No. 2 responded with Combination wagon. Used one pony extinguisher and one chemical tank. Value of building, \$1,600; damage, \$57.30; insurance, \$1,600; insurance paid, \$57.30. Value of contents, \$800; damage, \$113; insurance, \$500; insurance paid, \$85.

STILL. Tuesday, April 14, 11 A. M. Grass fire at 347 Massabesic street, on land owned and occupied by heirs of Milton Abbott. Members of Engine and Ladder Company No. 3 responded.

STILL. Tuesday, April 14, 1.15 P. M. Brush fire corner Wilson and Valley streets, on land owned by Amoskeag Manufacturing Company. Cause, set by boys. Members of Engine Company No. 7 responded. Laid 500 feet hose from hydrant.

STILL. Tuesday, April 14, 4.30 P. M. Brush fire on the Eddy road, on land owned by Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 6 responded.

STILL. Tuesday, April 14, 8.30 P. M. Grass fire in yard of 24 South street, owned and occupied by Thomas Smith. Hose Company No. 2 responded. Used one pony extinguisher.

STILL. Thursday, April 16, 12.05 M. Chimney fire in tenement block, No. 123 School street, owned by Willis B. Kendall, and occupied by several families. Members of Engine Company No. 2 responded. Used one chemical tank.

STILL. Thursday, April 16, 5.40 P. M. Chimney fire in dwelling-house, 27 Adams street (W. S.), owned by John J. Cronin, and occupied by John A. Gemmell. Members of Engine Company No. 2 responded. Used two pony extinguishers.

STILL. Thursday, April 16, 9.30 P. M. Chimney fire in three-story wooden tenement block, 267 Bridge street, owned by Mrs. Georgie A. Williams of Boston, and occupied by Norman Colby as drug store, and several families as tenements. Members of Hose Company No. 2 responded. Used one pony extinguisher.

STILL. Friday, April 17, 8.30 A. M. Slight fire on roof of building, 454 Central street, owned by Joseph Mitchell, and occupied by Guyette & Gordon. Cause, sparks from a brush fire. Members of Engine & Ladder Company No. 3 responded. Laid 250 feet hose from hydrant.

Box 324. Friday, April 17, 2.15 P. M. Brush fire on unoccupied land on Kelly, Morgan and Kimball streets, owned by Amoskeag Manufacturing Company. Box pulled by citizen. Companies responding, Engines 2, 5, 6, Truck 6. Used one pony extinguisher. Laid 900 feet hose.

STILL. Monday, April 20, 12.30 P. M. Chimney fire in two-and-a-half-story dwelling-house, 310 Hanover street, owned and occupied by



Herman Neal. Members of Hose Company No. 2 responded with hose wagon. Used three pony extinguishers.

STILL. Wednesday, April 22, 5.25 P. M. Chimney fire in cottage house, 728 Hayward street, owned by Clarence H. Durgin, and occupied by Mrs. John Purcill. Members of Engine Company No. 7 responded. Used three pony extinguishers.

STILL. Wednesday, April 22, 9.16 P. M. Chimney fire in three-story tenement block, 145 Orange street, owned by Norwin S. Bean, and occupied by W. F. Bruton and others. Chemical engine responded.

Still. Thursday, April 23, 10 A. M. Brush fire on the city farm on Mammoth road. Combination No. 2 responded.

STILL. Thursday, April 23, 11 A. M. Brush fire corner Wilson and Valley street, on land owned by Amoskeag Manufacturing Company. Engine Company No. 7 responded. Laid 500 feet hose from hydrant.

2—2—2. Thursday, April 23, 11.02 A. M. Brush fire on North River road, near Stark school. Engine and Ladder Company No. 5 responded. Used one pony extinguisher.

STILL. Thursday, April 23, 4 P. M. Grass fire on North River road on land owned and occupied by Mr. Dawson. Cause, unknown. Members of Engine and Ladder Company No. 5 responded.

STILL. Thursday, April 23, 4.10 P. M. Brush fire corner Lincoln and Hayward streets, owned by Amoskeag Manufacturing Company. Members of Engine Company No. 7 responded. Laid 300 feet hose from hydrant.

STILL. Friday, April 24, 7.40 P. M. Brush fire on unoccupied land on Mast street, owned by George S. Eastman. Cause, set by boys. Members of Engine Company No. 2 responded.

STILL. Friday, April 24, 8.55 P. M. Rekindling of previous brush fire. Members of Engine Company No. 2 responded.

STILL. 2—2—2 on tappers. Friday, April 24, 4.52 P. M. Brush fire on Corning road, south of Mosquito pond. Engine Company No. 4 responded with delegation from other companies. All out before arrival.

STILL. Sunday, April 26, 1.45 P. M. Brush fire on east side of Oak hill on Mammoth road, on land owned by Amoskeag Manufacturing Company. Members of Combination Company No. 2 responded.

STILL. Sunday, April 26, 2.25 P. M. Brush fire on West Side of Oak hill, on land of Amoskeag Manufacturing Company. Members of Hose Company No. 2 responded.

STILL. Sunday, April 26, 2.30 P. M. Brush fire on Goffstown road in rear of F. D. Hanscom's land, owned by Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 3 responded.

Box 315. Sunday, April 26, 2.53 P. M. This alarm is for the foregoing brush fire. Box pulled by Walter Morse. Companies responding, Engines 5, 6, Chemical, Truck 5.

STILL. Sunday, April 26, 3.05 P. M. Brush fire in the Harvey District, on Londonderry road, on land of French-Annis & Co. Cause, sparks

from B. & M. R. R. locomotive. Members of Hose Company No. 3 responded. Used two pony extinguishers.

Box 3. Sunday, April 26, 5.28 P. M. False alarm. Some one seeing a flame issuing from smoke-stack of Gas-Works, pulled the box. Companies responding, Engines 1, 7, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Monday, April 27, 9.35 A. M. Hot coals in rear of barn, 607 Prescott street, owned by Joseph Beaudreau, and occupied by Charles Tousignant. Members of Engine Company No. 7 responded.

STILL. Monday, April 27, 3.30 P. M. Wooden dwelling-house, 255 Lowell street, owned by Claus Dahlquist and occupied by Ola Peterson. Cause, children playing with matches set fire to a pile of rubbish in rear of shed. Members of Hose Company No. 2 responded with hose wagon.

STILL. Wednesday, April 29, 3.36 P. M. Hot ashes in rear of brick tenement block, No. 1356-8-10 Elm street, owned by Norwin S. Bean. Members of chemical engine responded. No service required.

STILL. Wednesday, April 29, 11.17 P. M. Electric car, corner Elm and Depot streets, owned by Manchester Traction, Light & Power Co. Chemical engine responded. No service required.

STILL. Thursday, April 30, 6.47 P. M. Two-story wooden building, 40 Winter street, owned by James R. Leach, and occupied by James E. MacDonald for manufacture of brooms and barrels. Cause, boys set fire to broom-waste in rear of building. No damage. Members of Engine Company No. 2 responded with Combination wagon.

Box 5. Thursday, April 30, 8.24 P. M. Four-story-brick block, 794 Elm street, owned by Dr. J. F. Brown and Mitchell heirs, and occupied by C. F. Chase as dentist's office, and others. The fire originated in Dr. Chase's office from kerosene lamp, and was wholly confined here. Extinguished by chemical engine. Box pulled by Dr. Chase. Companies responding, Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$9,000; damage, \$200; insurance, \$9,000; insurance paid, \$200. Value of contents, \$1,600; damage, \$52; insurance, \$500; insurance paid, \$52.

Box 7. Friday, May 1, 6.06 P. M. Chimney fire in two-and-a-half-story wooden tenement block, 352 Pine street, ignited a few shingles on roof. Damage very slight. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, Trucks 1, 3.

Box 7. Saturday, May 2, 10.49 P. M. Three-and-a-half-story wooden tenement block, 301 Chestnut street, owned by Mrs. W. H. Topping, and occupied by several families. Cause, overturning of kerosene lamp, in room on attic floor. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of contents of room, \$25; damage, \$5; no insurance.

Box 51. Saturday, May 2, 11.10 P. M. Two-story wooden stable, 9 Walker street, owned and occupied by James Ried. Slight fire in



loose hay in front of horse. Cause unknown. Box pulled by citizen. Companies responding, Engines 2, 6, Truck 6.

STILL. Sunday, May 3, 8.20 A. M. Cottage house, 240 Lowell street, owned by A. M. Burnham of Hillsborough Bridge, N. H., and occupied by George Porter. Cause, children knocked lamp from table. No damage. Members of Hose Company No. 2 responded with hose wagon. Used one pony extinguisher.

Box 82. Tuesday, May 5, 3.41 P. M. Wooden ten-footer, 1122 Elm street, owned by the heirs of Joseph R. Weston and Warren Harvey, and occupied by Henry King as lunch room. Cause, cigar stub thrown from adjoining building, caused slight fire on roof, that was extinguished with pail of water without damage. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Wednesday, May 6, 6.50 A. M. Chimney fire in tenement house, 514 Maple street, owned by Charles Carpenter, of Pittsfield, N. H., and occupied by several families. Members of Hose Company No. 2 responded. No service required.

2—2—2. Monday, May 11, 2.45 P. M. Brush fire on land between Brown avenue and South Beech street, owned by Mrs. Nellie A. Miller, Kennard heirs and J. A. Brown. Members of Engine Company No. 1 and Hose Company No. 3 and delegation from other companies responded. Laid 900 feet hose from hydrant.

STILL. Tuesday, May 12, 12.55 P. M. Chimney fire in cottage house, 538 Central street, owned and occupied by Mrs. L. P. Tirrell. Members of Engine Company No. 3 responded with hose wagon. Used one pony extinguisher.

2—2—2. Saturday, May 16, 1.55 P. M. Brush fire on Goffstown road on land of Amoskeag Manufacturing Company, Tenney heirs and others. Burned over about 200 acres, mostly scrub land. On duty 3½ hours. Engine Companies Nos. 4 and 5 with their supply wagons and delegations from other companies responded.

Box 53. Saturday, May 16, 6.53 P. M. Two-story brick "dry house" and engine room, 168 South Main street, owned and occupied by the West Side Lumber Company. Cause unknown. Box pulled by citizen. Companies responding, Engines 2, 6, Hose 1, Truck 6. Value of building, \$2,000; damage, \$250; no insurance. Value of contents, \$2,500; damage, \$550; insurance, \$450; insurance paid, \$422.71.

STILL. Sunday, May 17, 6.50 P. M. Brush fire on "scrub" land, south of Vinton street, owned by Stevens heirs, Dr. Frank Mitchell, and others. Members of Engine Company No. 7 responded with hose wagon, and delegation from Central Station. Laid 550 feet hose from hydrant, and used three pony extinguishers.

STILL. Monday, May 18, 3 P. M. Brush fire on Amory street extension, on land owned by Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 6 responded. No damage.

STILL. Thursday, May 21, 2.18 A. M. Slight fire in wooden "motor shed," 24 Cedar street, owned and occupied by M. Bagwell. Cause, spontaneous combustion. Chemical engine responded.

STILL. Thursday, May 21, 11.25 P. M. Chimney fire in tenement, 218 South Main street, owned by Fred G. Stark, and occupied by Edward Reuter. Members of Engine Company No. 2 responded.

Box 51. Sunday, May 24, 1.40 P. M. False alarm pulled by some mischievous boy. Companies responding, Engines 2, 6, Truck 6.

STILL. Sunday, May 26, 1.50 P. M. Brush fire on land north of Sagamore street, owned by Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 5 responded. Used one pony extinguisher.

Box 321. Wednesday, May 27, 8.26 P. M. Two-and-a-half story dwelling-house, 218 Notre Dame avenue, owned and occupied by Mrs. Aime Trottier. Cause, breaking of lamp, burning some clothing and damaging the kitchen slightly. Box pulled by citizen. Companies responding, Engines 2, 6, Hose 1, Trucks 1, 6.

STILL. Thursday, May 28, 11.19 A. M. Chimney fire in two-tenement house, 341 Lake avenue, owned by Katherine Ryan, and occupied by Napoleon Morency. Members of Engine and Ladder Company No. 3 responded with hose wagon. Used three pony extinguishers.

STILL. Thursday, May 28, 8.10 P. M. Chimney fire in two-and-a-half-story two-tenement house, 410 Dubuque street, owned by U. Gelinas, and occupied by two families. Members of Engine and Ladder Company No. 6 responded. Used two pony extinguishers.

STILL. Friday, May 29, 9.05 A. M. Four-story brick building (Linden House), 119-121 Hanover street, owned by George F. Bosher, and occupied by Dockham & Prescott (1st floor and basement) as bakery, and balance of building by Mr. and Mrs. Levi Woodbury as boarding and lodging house. Cause, defective chimney. Chemical engine responded. Value of building, \$12,000; damage, \$58.20; insurance, \$12,000; insurance paid, \$58.20. No damage done to contents.

STILL. Monday, June 1, 10 P. M. Four-story brick building, 67 Manchester street, owned by R. A. Bruno, and occupied by Nap. Lacombe and others. Cause, rats and matches in partition. Chemical engine responded. Value of building, \$12,000; damage, \$19.59; insurance, \$3,000; insurance paid, \$19.59. No damage to contents.

STILL. Tuesday, June 2, 3.40 P. M. Brush fire on North River road, near Stark schoolhouse, on land of Manchester Realty Company. Members of Engine and Ladder Company No. 5 responded with exercise wagon and delegation from Central Station, but fire was extinguished before their arrival.

STILL. Friday, June 5, 6.10 P. M. Chimney fire in two-and-a-half-story tenement house, 437 Rimmon street, owned by Thomas J. Mahoney, and occupied by three families. Members of Engine and Ladder Company No. 6 responded. Used two pony extinguishers.

2-2-2. Sunday, June 7, 1.55 P. M. Brush fire on land owned by the city, in Auburn, on shores of Lake Massabesic, near John Lavasseur's grove. Delegation from Central Station and Engine and Ladder Company No. 3 responded.

STILL. Friday, June 12, 9.55 A. M. Two-and-a-half-story dwelling-house, 288 Pearl street, owned by Mrs. Mary Bartlett, and occupied by George M. Dumbleton. Cause, valve dropped out of gas-water heater. Members of Hose Company No. 2 responded. No damage.

Box 53. Saturday, June 13, 11.44 A. M. Three-story wooden block, 194 South Main street, owned and occupied by H. C. Ranno Saddlery Company, for manufacture of harnesses. Cause, sparks from chimney. Box pulled by citizen. Companies responding, Engines 2, 6, Hose 1, Truck 6. Value of building, \$13,000; damage, \$30.78; insurance, \$6,000; insurance paid, \$30.78. Value of contents, \$75,000; damage, \$175; insurance, \$46,500; insurance paid, \$175.

STILL. Saturday, June 13, 12.20 P. M. Brush fire on land of L. B. Bodwell & Co., and Manchester Driving park. Caused from sparks from B. & M. R. R. locomotive.

Box 71. Sunday, June 14, 2.09 P. M. Three-story wooden tenement block, 144 Cedar street, owned by heirs of Thomas Smith, and occupied by six families. Cause, match thrown into cellar among kindling wood. No damage. Used one pony extinguisher. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Truck 3.

STILL. Monday, June 15, 6 P. M. Chimney fire in tenement house, No. 60 Concord street, occupied by Alfred Harrington. No service required. Members of Chemical Company responded.

STILL. Monday, June 15, 10 P. M. An old tree on the Barry playground between Pine and Willow streets, south of Hayward street, owned by Amoskeag Manufacturing Company. Members of Hose Company No. 3 responded. Used two pony extinguishers.

STILL. Wednesday, June 17, 1.09 P. M. Chimney fire in tenement house, No. 58 Orange street, owned by Oliver B. Green, and occupied by Henry Lemire. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Wednesday, June 17, 7.55 P. M. Three-story wooden tenement block, rear 150 Manchester street, owned by J. Trask Plummer, and occupied by Peter Papas and others. Cause, burning chimney. Chemical engine and Hose Company No. 1 responded. Used one pony extinguisher and one large tank.

Box 24. Friday, June 19, 1.43 A. M. Two-and-a-half-story house, 392 Lake avenue, owned by Mrs. David E. Guiney, and occupied by William Guilfooy and William Oshier. Cause, unknown. Box pulled by D. W. Wilson. Companies responding, Engines 3, 7, Hose 2, Combination 2, Truck 3. Value of building, \$3,500; damage, \$425; insurance, \$1,500; insurance paid, \$425. Value of contents, \$800; damage, \$100; no insurance.

STILL. Friday, June 19, 5.30 A. M. Cottage house, 473 Bridge street, owned by Alva B. Douglas, and occupied by Mrs. Mary Osgood. The fire originated in the ell-part from some unknown cause. Combination Company No. 2 responded. Laid 700 feet hose from hydrant. Value of building, \$1,800; damage, \$135; insurance, \$1,000; insurance paid, \$135. Value of contents, \$250; damage, \$50; no insurance.

STILL. Saturday, June 20, 6.50 P. M. Grand stand, corner Valley and Beech streets, owned by Manchester Baseball Association. Cause, cigar stub. Damage slight. Chemical engine responded. Used one pony extinguisher.

STILL. Sunday, June 21, 10.37 A. M. Awning at New City Hotel, 1138 Elm street, owned by William H. Hurd. Cause, matches thrown from window. Extinguished before their arrival.

2—2—2. Sunday, June 21, 1.55 P. M. Brush fire near Willey's Crossing on land owned by Annis Company and others. Hose Company No. 3 responded with exercise wagon, and delegations from other companies. On duty  $3\frac{1}{2}$  hours.

Box 73. Wednesday, June 24, 8.17 A. M. Two-and-a-half-story wooden dwelling, 352 Cedar street, owned by Michael Mahoney, and occupied by him and Matthew Mahoney. Fire in closet. Cause unknown. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 2, 3, Trucks 1, 3. Value of building, \$2,800; damage, \$50; insurance, \$2,500; insurance paid, \$50. Value of contents, \$500; damage, \$201; insurance, \$500; insurance paid, \$201.

Box 217. Wednesday, June 24, 4.11 P. M. Storage shed for gasoline, 122 Oakland avenue, owned by William Warren. Cause, igniting gas from lamp flame. Box pulled by citizen. Companies responding, Engines 3, 7, Hose 2, Combination 2, Truck 3. Damage slight.

STILL. Friday, June 26, 12.40 P. M. Grass and fence fire on grounds of Manchester Baseball Association at Varick park, corner Valley and Maple street. Cause, boys with matches. Chemical Engine and Engine Company No. 7 responded. Used one chemical tank and three pony extinguishers.

STILL. Friday, June 26, 4.52 P. M. A pile of shavings on river bank off Turner street, on land owned by Amoskeag Manufacturing Company, and occupied by J. H. Mendell Company. Cause, set by boys. Members of Engine Company No. 2 responded with Combination wagon. Used one chemical tank and laid 350 feet hose from hydrant.

Box 21. Saturday, June 27, 7.05 P. M. Three-story wooden tenement block, 9-11 Laurel street, owned by Frank E. Green, and occupied by Jeremy B. Folsom and Mrs. Albert Lemay. Cause, explosion of oil stove, and Mrs. Folsom was severely burned about the arms and face in an attempt to throw stove out of house. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$4,000; damage, \$450; no insurance. Value of contents, \$650; damage, \$300; no insurance.



2—2—2. Sunday, June 28, 3.15 P. M. Brush fire on the Dunbarton road on land of Daniel W. Farmer estate and others. Engine Companies Nos. 1 and 5, with delegation from Central Station, responded in exercise wagon. On duty  $2\frac{1}{2}$  hours.

Box 4. Tuesday, June 30, 7.46 P. M., first alarm; 7.53 P. M., second alarm. Four-story brick building, corner Franklin and Cedar streets, owned by Gordon Woodbury and occupied as machine shops by several parties. Cause, spark from boiler in shavings' bin. No damage. Some one needlessly pulled second alarm. Companies responding, Engines 1, 2, 3, 4, Chemical, Hose 1, 2, 3, Trucks 1, 3, 5.

STILL. Saturday, July 4, 8.30 P. M. Three-story wooden tenement block, 1443 Elm street, owned by heirs of Parsons & Ricker, and occupied by Albert Dubreuil and others. Cause, boy with match set fire to couch. Chemical engine responded. No service required.

STILL. Sunday, July 5, 1.03 A. M. Three-story wooden block (with brick basement for store), 414-416 Manchester street, owned by A. M. Winchester of Boston, and occupied in basement as grocery store by Charles H. Sawyer, where the fire originated. Cause, rats and matches. Box pulled by Officer Foye. Companies responding, Engines 3, 4, Hose 2, Combination 2, Truck 3. Value of building, \$3,000; damage, \$100; insurance, \$3,000; insurance paid, \$100. Value of contents, \$2,200; damage, \$800; insurance, \$1,000; insurance paid, \$750.

Box 64. Monday, July 6, 4.37 P. M. Cottage house, No. 23 Plumer street, owned and occupied by Philip Greinard. Cause, sparks from chimney igniting bed on piazza roof, doing but little damage. Box pulled by citizen. Companies responding, Engine 4, Chemical, Hose 3. Damage slight.

STILL. Monday, July 6, 6.05 P. M. Four-story brick block, No. 867 Elm street, owned by William H. Plumer, and occupied by L. P. Labonte as ladies' dress goods store. Cause, smoke in partitions from burning paper in chimney. Members of Chemical Company responded.

STILL. Thursday, July 9, 4.48 P. M. Brush fire on Mammoth road, on land of William Harrison. Combination Company No. 2 responded. Used one pony extinguisher.

STILL. Thursday, July 9, 4.50 P. M. Brush fire on Oak hill, on land of Amoskeag Manufacturing Company. Hose Company No. 2 responded with exercise wagon and eight men. Used three pony extinguishers.

STILL. Thursday, July 9, 5.05 P. M. Fence fire on land owned by Mrs. Clarence M. Durgin at 25 Welch avenue. Cause, boys playing with matches. Members of Hose Company No. 3 responded. Used one pony extinguisher.

STILL. Saturday, July 11, 1.21 P. M. Grass fire on Calef road on land owned by Ellen Burns and son. Hose Company No. 3 responded. Laid 450 feet hose from hydrant, and used two pony extinguishers.

2—2—2. Saturday, July 11, 1.56 P. M. Telephone message stated that Hose Company No. 3 wanted additional help for above fire. Delegation from Central Station responded.

STILL. Saturday, July 11, 5.50 P. M. Grass fire on land of B. & M. R. R. on canal, Central and Granite streets. Chemical engine responded. Used one chemical tank.

STILL. Sunday, July 12, 10.30 A. M. Grass fire on Candra road and Paige street, owned by Daniel Brenner. Engine Company No. 7 responded with hose wagon. Laid 650 feet hose from hydrant.

STILL. Sunday, July 12, 11.30 A. M. Brush fire on Wilson and Harvard streets, owned by Amoskeag Manufacturing Company. Engine Company No. 7 responded with hose wagon.

2—2—2. Sunday, July 12, 1.56 P. M. Brush fire in "scrub" land around the Bodwell ledge, on land owned by C. H. Bodwell, C. C. Bab-bitt, and others. Delegations from several companies responded. On duty five hours. Used six pony extinguishers.

STILL. Sunday, July 12, 2 P. M. City dump on Taylor street. Members of Engine Company No. 7 responded with hose wagon. Laid 200 feet hose from hydrant.

STILL. Sunday, July 12, 2.12 P. M. Brush fire on north side Mitchell street, near Calef road, on land of Waterman Smith heirs. Hose Company No. 3 responded. Used two pony extinguishers.

STILL. Monday, July 13, 10.19 A. M. Brush fire at Bodwell's ledge. Sent delegation from Engine and Ladder Company No. 5 and from Engine Company No. 3 for south side of same fire. On duty six hours.

2—2—2. Monday, July 13, 12.25 M. This alarm was for more help for above fire, and Hose Company No. 2 and Engine Company No. 4 responded with delegations from other companies. On duty four hours.

STILL. Monday, July 13, 1.15 P. M. McGregor bridge, owned by city of Manchester. Members of Engine and Ladder Company No. 6 and Chemical Engine responded. Laid 750 feet hose from hydrant, and used two pony extinguishers and one chemical tank.

STILL. Monday, July 13, 2.05 P. M. Chimney fire in three-story wooden tenement block, 46 Vine street, owned by Stark mills, and occupied by John Bellivue. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Tuesday, July 14, 9.48 A. M. Brush fire on Bald Hill road on land of Alfred Lindstrom. Combination Company No. 2 responded. Used two chemical tanks.

STILL. Wednesday, July 15, 12.10 M. Grass fire on land of B. & M. R. R. on Depot street. Chemical engine responded. Used one pony extinguisher.

2—2—2. Thursday, July 16, 4 P. M. Brush fire on Bald Hill road, west of Moss road. Engine Company No. 1 and Combination Company



No. 2, with supply wagon and detail from Central Station, responded. On duty four hours.

Box 212. Thursday, July 16, 4.56 P. M. Grass fire on Massabesic street, in orchard owned by Platts & Garland. Cause, sparks from B. & M. R. R. locomotive. Box pulled by citizen. Companies responding, Engines 3, 7, Chemical, Hose 2, Truck 3.

STILL. Friday, July 17, 8.22 A. M. Four-story brick building, 32 Merrimack street, owned by Elliott & Varick, and occupied by L'Avenir National printing office. Cause, furnace connected into open chimney. Chemical engine responded.

STILL. Friday, July 17, 1.05 P. M. Brush fire on Valley and Wilson streets, on land owned by Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 3 responded with hose wagon. Laid 500 feet hose from hydrant.

STILL. Monday, July 20, 4 P. M. Smoke blowing from chimney at 312 East Spruce street, owned by Mrs. Charles Varney, caused a false alarm. Members of Engine and Ladder Company No. 3 responded.

STILL. Saturday, July 25, 7.55 P. M. Chimney fire in livery stable, 105 School street, owned and occupied by H. H. Lamoureux. Members of Engine Company No. 2 responded with Combination wagon. Used one chemical tank.

Box 214. Wednesday, July 29, 2.15 P. M. An open woodshed on Wilson street in the yard of Manchester water-works. Cause unknown. Box pulled by citizen. Companies responding, Engines 3, 7, Hose 2, 3, Combination 2, Trucks 1, 3. Value of building, \$175; damage, \$175; no insurance.

STILL. Monday, August 3, 2.55 P. M. Brush fire on Glenwood avenue, near Bedford line, on land owned by A. J. Lane. Members of Engine Company No. 2 responded with Combination wagon.

Box 82. Tuesday, August 4, 6.40 P. M. Two-and-a-half-story wooden building, 40-42 Bridge street, owned by Frank E. Green, and occupied by A. J. Provencher as shoe store. The fire originated in the basement at the gas meter from some unexplained cause. Damage only to meter and shelf. Extinguished by chemical engine. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 611. Wednesday, August 5, 2.08 A. M. Cottage house on Jefferson street, South Manchester, owned by heirs of Waterman Smith and occupied by Murdock A. Weathers. Companies responding, Engines 1, 7, Chemical, Hose 1, 3, Truck 1. Value of building, \$500; damage, \$500; no insurance. Value of contents, \$600; damage, \$400; no insurance.

STILL. Wednesday, August 5, 3.48 P. M. Three-story wooden shoe shop, 343 Kelly street, owned and occupied by H. B. Reed Company. Cause, lightning "started off" a thermostat. Members of Engine and Ladder Company No. 6 responded with hose carriage.

STILL. Thursday, August 6, 10.17 A. M. Four-story brick building on Willow street, owned by Cohas Building Company, and occupied by W. H. McElwain Company as shoe factory. Cause, breaking of wire on automatic alarm circuit. Hose Company No. 3 responded.

STILL. Friday, August 14, 9.20 P. M. Cottage house, 8 Warren street, owned by Ira Baxter and occupied by Thomas O'Brien. Cause, burning chimney. Members of Hose Company No. 2 responded with hose wagon. Used two pony extinguishers.

STILL. Saturday, August 15, 10.30 A. M. Wooden tenement block, 58 East Spruce street, owned by Milton C. Paige, and occupied by Mrs. Haskell. Cause, overflow of oil-stove. Members of Engine and Ladder Company No. 3 responded. Used one pony extinguisher.

Box 213. Monday, August 17, 10.40 P. M. Three-story wooden building, 39-59 South Beech street, at junction of Portsmouth branch, B. & M. R. R., owned and occupied by the Derryfield Lumber Company. Cause, sparks from boiler. Box pulled by watchman at works. Companies responding, Engines 3, 7, Chemical, Hose 2, 3, Truck 3. Value of building, \$25,000; damage, \$100; insurance, \$21,875; insurance paid, \$100. Value of contents, \$25,000; damage, \$100; insurance, \$21,875; insurance paid, \$100.

STILL. Tuesday, August 18, 2.41 P. M. Kindlings in rear of 20 Granite street, owned by Furnace Brothers. Chemical engine responded. No service required.

Box 15. Tuesday, August 18, 9.07 P. M. Three-story wooden tenement block, rear 135 Orange street, owned by Charles Johnson and occupied by Joseph Morin. Cause, oil lamp, which was thrown out the window. No damage. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 261. Thursday, August 20, 12.24 A. M. False alarm. Companies responding, Engine 1, Hose 2, Combination 2, Truck 3.

STILL. Thursday, August 20, 10.30 P. M. Four-story brick block, 109 Nutfield lane, owned by E. W. Harrington heirs, and occupied as a saloon by Fred Fifield. Cause, smoky stovepipe. Chemical engine responded.

STILL. Friday, August 21, 8.28 A. M. Three-story brick building, 39 State street, owned by Amoskeag Manufacturing Company, and occupied by George Doran as a boarding house. Cause, fire in feather bed. Damage slight. Chemical engine and Combination wagon from Engine Company No. 2 responded. Used one pony extinguisher.

Box 112. Saturday, August 22, 10.14 P. M. False alarm. Companies responding, Engines 1, 5, Chemical, Hose 2, Truck 5.

Box 4. Tuesday, August 25, 6.14 A. M. Slight fire among some rubbish in woodyard of James Lake at No. 11 Cedar street. No service required. Companies responding, Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Thursday, August 27, 11.10 A. M. Three-story wooden block,

56 Massabesic street, owned by Milton C. Paige, and occupied by East Manchester Veteran Firemen's Association. Cause, smoking stove. Members of Engine and Ladder Company No. 3 responded.

STILL. Saturday, August 29, 12.15 A. M. Three-story wooden tenement block, No. 29 Spruce street, owned by Frank P. Johnson, and occupied by George Capsonsas and others. Slight fire in partition. Cause, rats and matches.

Box 4. Sunday, August 30, 5.59 P. M. Four-story wooden block, No. 599 Elm street, owned by heirs of Daniel Connor and occupied by Joseph Beaudette and others. Cause unknown. Feather bed and clothing damaged about \$25 on which there was no insurance. Companies responding, Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Sunday, August 30, 8.15 P. M. Five-story brick building, 913 Elm street, owned by J. W. C. Pickering and occupied by several parties as stores and offices. Cause, burning waste in boiler room. Chemical engine responded. No service required.

STILL. Sunday, August 30, 10.10 P. M. Four-story brick block, 1261 Elm street, owned by Gordon Woodbury and occupied by Humania Carrigan and others. Cause, chimney fire. Chemical engine responded. Used one pony extinguisher.

Box 21. Tuesday, September 1, 8.19 P. M. Three-story wooden block, 98 Merrimack street, owned by John M. Knowles, and occupied by Phillip Bailey as cobbler's shop, and several tenements. Cause, dropping of a hanging lamp. Damage slight. No service required. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Thursday, September 3, 2 P. M. An ash-chute in rear of Wells' block, 1054 Elm street. Chemical engine responded. No service required.

STILL. Monday, September 7, 11.50 A. M. Slight fire on McGregor bridge, owned by city of Manchester. Cause, cigar stub. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used one pony extinguisher.

STILL. Thursday, September 10, 11 A. M. Chimney fire in two-and-a-half-story tenement house, 547 Maple street, owned and occupied by Patrick Kearns. Members of Hose Company No. 2 responded. No service required.

STILL. Friday, September 11, 4 P. M. Three-story wooden tenement block, 230 East High street, owned by heirs of E. T. James, and occupied by Frank Hastings. Cause, oil stove caught fire. Members of Hose Company No. 2 responded.

Box 15. Friday, September 11, 5.53 and 5.56 P. M. Cottage house, No. 90 Bridge street, owned by Mrs. W. E. Buck, and occupied by Mrs. George Pillsbury. Cause, gas jet scorched a small place on wall. A second alarm was pulled by some excited individual. Companies responding, Engines 1, 3, 4, 5, Chemical, Hose 1, 2, Trucks 1, 3, 5.

Box 4. Monday, September 14, 4.38 P. M. Three-story wooden block, No. 100 Lake avenue, owned by Peter Giblin, and occupied by Martin Manning and others. The fire started in Manning's tenement from some unknown cause. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Truck 3. Value of building, \$10,000; damage, \$100; insurance, \$5,000; insurance paid, \$100. Value of contents, \$200; damage, \$40; no insurance.

Box 21. Tuesday, September 15, 7.01 P. M. Wooden tenement house, 35 Laurel street, owned by Nason Hall, and occupied by Mrs. Asa King. Cause, lamp explosion setting fire to couch. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Damage to couch, \$8. No insurance.

STILL. Thursday, September 17, 8.02 P. M. Ash barrel in rear of tenement block, 522 Maple street, owned by Charles Carpenter of Chichester. Members of Hose Company No. 2 responded. No service required.

STILL. Thursday, September 17, 11.30 P. M. McGregor bridge, owned by city of Manchester. Cause, cigar stub set plank afire. No damage. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used one pony extinguisher.

Box 541. Friday, September 18, 11.36 A. M. Cottage house with barn connected, on Salem street, Glenwood avenue, near Bedford line, owned by Max and Fritz Ruhkle. Cause unknown. Box pulled by citizen. Companies responding. Engine 2, Hose 1, Truck 6. Value of building, \$800; damage, \$700; insurance, \$700; insurance paid, \$700. Value of contents, \$400; damage, \$100; insurance, \$400; insurance paid, \$400.

Box 81. Sunday, September 20, 11.46 P. M. Two-and-a-half-story brick dwelling, 2 Water street, owned by Stark mills, and occupied by James Coburn. Cause, sparks from fireplace. Box pulled by citizen. Companies responding, Engines 1, 4, Chemical, Hose 1, Truck 1. Value of building, \$10,000; damage, \$250; insurance, \$10,000; insurance paid, \$250. Value of contents, \$4,500; damage, \$200; insurance, \$2,500; insurance paid, \$200.

Box 6. Monday, September 21, 8.50 P. M. Two-and-a-half-story dwelling-house, 86 Hanover street, owned by ——— Smith, and occupied by Algernon B. Skinner. Cause, lace curtain coming in contact with flame from gas burner. Damage, loss of lace curtain. Box pulled by officer. Companies responding, Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 5. No service required.

STILL. Wednesday, September 30, 9 A. M. Three-story wooden tenement block, 230 East High street, owned by heirs of E. T. James, and occupied by John Hastings. Cause, overturning oil stove. Hose Company No. 2 responded. Laid 350 feet hose from hydrant and used three pony extinguishers.

Box 21. Thursday, October 1, 2.21 A. M. Three-story wooden block,



280 Pine street, owned by Mrs. Ellen Kerins, and occupied by several families. The fire originated in the second-story from some unknown cause. Box pulled by Officer O'Malley. Companies responding, Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$12,000; damage, \$150; insurance, \$1,000; insurance paid, \$150. No damage to contents.

Box 82. Thursday, October 1, 6.20 P. M. Three-story brick block, 1171-5 Elm street, owned by Chandler heirs, and occupied by U. N. Laberge & Company as dry goods and ladies' furnishings store. Cause, paper in chimney with "cleanout" door open. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of contents, \$7,000; damage, \$300; insurance, \$2,500; insurance paid, \$300.

Box 71. Friday, October 2, 7.59 P. M. Chimney fire in three-story tenement house, No. 118 East Spruce street, owned by Agnes P. Powers, and occupied by Nicholas Peter and others. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Truck 3. Used one pony extinguisher.

Box 5. Friday, October 2, 8.36 P. M. Four-story brick block, No. 788 Elm street, owned by Brown, Simonds, and others, and occupied by R. B. Reynolds as hotel and boarding-house. Cause, breaking of kerosene lamp on third floor. Damage slight. Box pulled by officer. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

Box 8. Sunday, October 4, 8.07 A. M. Three-story wooden tenement block, 24 Orange street, owned by Mrs. Charles F. Morrill, and occupied by Charles Beland. The fire originated in a closet on third floor from some unknown cause. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$5,000; damage, \$59.26; insurance, \$4,000; insurance paid, \$59.26. Value of contents, \$150; damage, \$20. No insurance.

STILL. Sunday, October 4, 8.30 A. M. Chimney fire in four-story wooden tenement block, 7 Pearl avenue, between Pearl and Orange streets. Hose Company No. 1 responded. Used one pony extinguisher.

STILL. Monday, October 12, 5.42 A. M. Gravel bank of the Robie Concrete Works on Donald street. Fire in flue of tar kettle. Members of Engine Company No. 2 responded with Combination wagon.

Box 32. Monday, October 12, 10.16 A. M. Two-story brick block, 8 West Brook street, owned by the Amoskeag Manufacturing Company, and occupied by Joseph C. Murphy. Cause, slight fire in stairway, among clothes. Box pulled by citizen. Companies responding, Engines 4, 5, Chemical, Hose 1, Trucks 1, 5.

STILL. Monday, October 12, 6.25 P. M. Chimney fire in two-tenement house, No. 22 Winter street, owned by McKelvie Brothers. Members of Engine Company No. 2 responded with Combination. Used one pony extinguisher.

STILL. Monday, October 12, 7.35 P. M. Chimney fire in dwelling-

house, 331 Central street, owned by James M. Barry, and occupied by Joseph Gagnon. Members of Engine and Ladder Company No. 3 responded. Used one pony extinguisher.

Box 9. Tuesday, October 13, 2.40 P. M. Two-and-a-half-story tenement house, 23 Appleton street, owned by Mary Buzzell, and occupied by Josiah Taylor and Howard H. Stiles. Cause, unknown. Box pulled by citizen. Companies responding, Engines 1, 5, Chemical, Hose 1, Truck 5. Value of building, \$2,800; damage, \$669.79; insurance, \$2,300; insurance paid, \$669.79. Value of contents, \$900; damage, \$175; insurance, \$300; insurance paid, \$140.

STILL. Wednesday, October 14, 11.15 A. M. Grass fire head of Douglas street on land of B. & M. R. R., caught from sparks from locomotive. Members of Engine Company No. 2 responded with Combination wagon. Used two pony extinguishers.

STILL. Thursday, October 15, 11.14 A. M. Four-story brick building, 36 Merrimack street (rear), owned by Elliott & Varick, and occupied by George W. Rief Company. Cause, smoky chimney. Chemical engine responded. No service required.

STILL. Thursday, October 15, 2 P. M. Smoking stove in tenement, 169 Merrimack street, occupied by Mr. Dearborn. Chemical engine responded. No service required.

STILL. Thursday, October 15, 5.55 P. M. Automobile at corner Beech and Spruce streets, owned by Dr. Leon J. Lacasse. Chemical engine responded, but fire extinguished before its arrival.

STILL. Saturday, October 17, 12.40 M. Smoke in cellar caused by dead air in tenement block, 25 Waldo street, owned by Sam B. Tarante, and occupied by him, and others. Members of Engine and Ladder Company No. 5 responded with hose carriage. No service required.

STILL. Sunday, October 18, 9 A. M. Chimney fire in cottage house, 129 Belmont street, owned and occupied by John Muir. Members of Engine Company No. 7 responded. Used two pony extinguishers.

STILL. Sunday, October 18, 10.20 A. M. Smoke in cellar caused by dead air in chimney in tenement block, 76 Appleton street, owned by H. W. Heath of Boston, and occupied by George Xanthaky. Members of Engine and Ladder Company No. 5 responded. No service required.

STILL. Sunday, October 18, 1.30 P. M. Brush fire on Harrison and Hall streets, owned by Amoskeag Manufacturing Company. Combination Company No. 2 responded. Used one pony extinguisher.

STILL. Sunday, October 19, 3 P. M. Brush fire on Harrison and Belmont streets, owned by Samuel M. Mead. Combination Company No. 2 responded. Used two pony extinguishers.

Box 5. Tuesday, October 20, 7.38 P. M. Chimney fire in two-story wooden tenement house, rear 44 Merrimack street, owned by Knights of Pythias Syndicate, and occupied by George Gates and others. Box



pulled by boy. Companies responding, Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. No damage.

Box 6, Tuesday, October 20, 8.57 and 9.01 P. M. Box 7, 9.15 P. M. (third, or general alarm). Five-story brick block, 73-89 Hanover street, owned by Hillsborough, Mechanics and Wildey lodges of Odd Fellows. The fire originated in the shoeshine and naphtha-cleaning works, on first floor, and two explosions immediately after the start of the fire sent the flames to the roof through an open stairway at the southwest corner of the block. General alarm was given, calling out entire department, eighteen streams playing on the fire. Companies responding, Engines 1, 2, 3, 4, 5, 6, 7, Chemical, Hose 1, 2, 3, Combination 2, Trucks 1, 3, 5, 6. Value of building, \$75,000; damage, \$28,375; insurance, \$50,000; insurance paid, \$28,375. Value of contents, \$27,378.00; damage, \$10,558.72; insurance, \$14,300.00; insurance paid, \$9,002.55.

STILL. Wednesday, October 21, 2.55 A. M. Four-story brick block, 69 Hanover street, owned by W. A. Pierce of Portsmouth, N. H., and occupied by Mrs. George McPherson as hotel and lodging-house. Fire started from some unknown cause in closet used as coal-bin. Hose Company No. 1 and Chemical engine responded. Laid 550 feet hose from hydrant. Value of building, \$15,000; damage, \$111.30; insurance, \$12,000; insurance paid, \$111.30. No damage to contents.

STILL. Wednesday, October 21, 9.25 A. M. Smouldering embers from Odd Fellows' block of previous night. Chemical engine and Truck No. 1 responded.

Box 4. Wednesday, October 21, 8.09 P. M. Four-story wooden tenement block, 69 Spruce street, owned by F. Morris and others, and occupied by Nicholas Ekonamas and others. Slight fire in bundle of rags. No damage. No service required. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Friday, October 23, 9.02 A. M. Four-story wooden tenement block, 307 Chestnut street, owned by heirs of E. W. Bartlett, and occupied by John McDonald. Slight fire in closet. Cause unknown. Chemical engine responded. Used one pony extinguisher.

Box 3. Friday, October 23, 6.20 P. M. One-story wooden building in rear 325 Elm street, owned and occupied by Head & Dowst Company as blacksmith shop. Cause, sparks from forge. Box pulled by citizen. Companies responding, Engines 1, 7, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$800; damage, \$125; insurance, \$400; insurance paid, \$125. Value of contents, \$1,000; damage, \$75; insurance, \$600; insurance paid, \$75.

STILL. Friday, October 23, 8.20 P. M. Four-story brick block, 38 Lake avenue, owned by D. A. Shannahan, and occupied by him as a saloon, and three other tenants as dwelling. Cause, box of snap-matches shut in bureau drawer. Chemical engine responded. Damage to bureau, \$5.

STILL. Saturday, October 24, 12.30 M. Brush fire on Kelly street, north of Kimball street, owned by Harry Piper. Members of Engine and Ladder Company No. 6 responded.

STILL. Saturday, October 24, 2.10 P. M. Brush fire on the Nutt road, on land owned by John Walker, Jr. Caused by Greeks smoking cigarettes. Hose Company No. 3 responded.

STILL. Sunday, October 25, 8.45 A. M. Chimney fire in cottage house, 678 Auburn street, owned by George W. Page, and occupied by J. Dunwoodie. Members of Engine and Ladder Company No. 3 responded. Used two pony extinguishers.

2—2—2. Sunday, October 25, 6.31 P. M. Brush and forest fire between Dunbarton road, River road and Hackett Hill road, above Amoskeag. Engine Company No. 1 and delegations from Engine Companies Nos. 5 and 6 responded with exercise wagon. On duty six hours.

STILL. Monday, October 26, 11.35 P. M. Overheated chimney in tenement house, 8 Birch street, owned and occupied by Dennis Sullivan, caused slight fire in floor and partition. Chemical engine responded. Used one pony extinguisher. Value of building, \$600; damage, \$14; insurance, \$500; insurance paid, \$14. No damage to contents.

STILL. Tuesday, October 27, 9.06 P. M. Fire among draperies and curtains in tenement house, 263 Hanover street, owned by Mrs. C. A. Holmes, and occupied by Mrs. Jennie B. Shattuck. Chemical engine responded. Extinguished before their arrival. Value of contents, \$500; damage, \$20; insurance, \$500; insurance paid, \$20.

STILL. Wednesday, October 28, 10.03 P. M. Chimney fire in tenement house, 52 Concord street, owned by Joseph Quirin and others. Chemical engine responded. Used one pony extinguisher.

STILL. Saturday, October 31, 5.55 P. M. Box of paper in rear of tenement block, 32 Vine street, owned by Stark mills, and occupied by several families. Members from Central Station responded. No service required.

STILL. Sunday, November 1, 5.40 P. M. Grass and brush fire on the Eddy road, Amoskeag, on land owned by the Amoskeag Manufacturing Company. Members of Engine and Ladder Company No. 6 responded.

STILL. Monday, November 2, 9.23 A. M. Two-and-a-half-story tenement building, 65 Amherst street, owned by Mrs. Frank Boyd, and occupied by Napoleon Descoteau and others. Cause, clothes too near stove in attic. Chemical engine and Truck No. 1 responded. Used one pony extinguisher and one chemical tank. Value of building, \$1,500; damage, \$19.50; insurance, \$1,000; insurance paid, \$19.50. No damage to contents.

Box 21. Wednesday, November 4, 6.53 P. M. Barrel of waste in rear 337 Pine street, owned by estate of A. L. Walker. Cause, hot

ashes. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. No service required.

Box 82. Friday, November 6, 10.53 A. M. Chimney fire in small building, No. 23 Birch street, owned by Peter Duinda, and occupied by George Wielgos as barber shop. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Friday, November 6, 1.53 P. M. Chimney fire in dwelling-house on Willow street, owned and occupied by Bridget Donnelly. Brick fell into the chimney impeding the draft. Hose Company No. 3 responded.

STILL. Saturday, Nov. 7, 6.05 P. M. Chimney fire in four-story brick block, 23 Pearl street, owned by Daniel Ready, and occupied by Joseph Turnell. Chemical engine responded. Used one pony extinguisher.

STILL. Tuesday, November 10, 7 P. M. Four-story brick block, 897 Elm street, owned by W. Henry Plumer, and occupied by L. P. LaBonte as ladies' garment store. Cause, waste under window grating of sidewalk. No damage. Chemical engine responded.

STILL. Wednesday, November 11, 4.50 P. M. Smoky chimney in two-and-a-half-story wooden tenement block, 110 Merrimack street, owned by J. H. Hayes, and occupied by Oliver Pereault. Chemical engine responded. No service required.

Box 23. Wednesday, November 11, 6.12 P. M. Three-story wooden building, 253 Lake avenue, Hospice St. Vincent de Paul, owned by St. Augustine parish, Roman Catholic bishop, and occupied by Sisters of Providence as an orphanage. Cause, boy incendiary. Box pulled by citizen. Companies responding, Engines 3, 4, Chemical, Hose 1, 2, Truck 3. Value of building, \$40,000; damage, \$62.65; insurance, \$10,000 (blanket); insurance paid, \$62.65. No damage to contents.

STILL. Friday, November 13, 9.05 A. M. Chimney fire in cottage house, 34 Ashland street, owned by Walter S. Holt, and occupied by Mrs. Amanda Hulme. Hose Company No. 2 responded with hose carriage. Used one pony extinguisher.

STILL. Friday, November 13, 12.07 M. Three-story wooden building, 253 Lake avenue, owned by St. Augustine parish, Roman Catholic bishop, and occupied by the Sisters of Providence as Hospice St. Vincent de Paul. Slight fire in closet set by boy incendiary. Damage slight. Chemical engine responded. Fire extinguished before their arrival.

STILL. Friday, November 13, 8.10 P. M. Chimney fire in four-story wooden tenement block, 22 Laurel avenue, owned by Mrs. W. H. Topping, and occupied by B. Anthony and others. Chemical engine responded.

STILL. Saturday, November 14, 12.32 midnight. Wooden cottage house and barn on Nutt road, three miles from city hall, owned by Alfred Dubois, and occupied by him and Ferdinand Dubois. Word

was received by messenger on bicycle to Hose Company No. 3. Cause unknown. Hose Company No. 3 and Chemical engine responded. Services were of no avail except protecting surrounding property from sparks. Value of building, \$2,000; damage, \$2,000; insurance, \$800; insurance paid, \$800. Value of contents, \$900; damage, \$900; insurance, \$150; insurance paid, \$150.

Box 263. Saturday, November 14, 1.50 A. M. Barn, shed and ell of house, corner Bridge street and Mammoth road, owned by Andrew G. Johnson, and unoccupied. Cause unknown. Box pulled by A. D. Sherer. Companies responding, Engine 4, Hose 2, Combination 2, Truck 3. Value of building, \$4,000; damage, \$3,000; insurance, \$3,000; insurance paid, \$3,000. Value of contents, \$250; damage, \$90; insurance, \$160; insurance paid, \$90.

Box 81. Sunday, November 15, 4.59 P. M. Four-story brick block, 1001-1005 Elm street, owned by estates of John D. Bean, H. G. Connor, Lewis and Mary Simons, and occupied by Tancrede Pariseau as boots and shoes and ladies' cloaks and suits store. Cause unknown. Box pulled by John Kelly. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, Trucks 1, 5. Value of building, \$36,000; damage, \$1,756.88; insurance, \$24,000; insurance paid, \$1,756.88. Value of contents, \$45,000; damage, \$27,000; insurance, \$10,000; insurance paid, \$10,000.

STILL. Tuesday, November 17, 6.30 P. M. Four-story brick block, 121 Hanover street, owned by George F. Bosher, and occupied by Dockham & Prescott as a bakery. Cause, smoky ovens. Chemical engine responded.

STILL. Tuesday, November 17, 8.36 P. M. McGregor bridge, owned by city of Manchester. Cause, careless use of tar kettle. Chemical engine responded. Damage slight.

STILL. Wednesday, November 18, 8.35 P. M. Chimney fire in tenement house, 38 Bridge street, owned by J. Finnan and occupied by Peter Castringa. Chemical engine responded. Used one pony extinguisher.

STILL. Thursday, November 19, 7.12 A. M. Three-story tenement house, 112 Spruce street, owned by M. Boisvert, and occupied by Apostolas Mponkobak. Cause, incendiary. Fire set in two places in cellar. Chemical engine responded. No damage.

STILL. Thursday, November 19, 4.05 P. M. Same as previous. Had appearance of smouldering embers in mortise in crossbeams from morning fire. Chemical engine responded. Used one pony extinguisher.

STILL. Friday, November 20, 7 P. M. Chimney in two-and-a-half-story double house, 395 Pine street, owned by Ann McAllister and occupied by Joseph Beaulac. Chemical engine responded.

Box 51. Monday, November 23, 6.07 A. M. Two-and-a-half-story dwelling house, 215 Turner street, owned by James Ried, and occu-



pied by Isadore Bonner. Cause, lace curtain in contact with gas jet. Box pulled by citizen. Companies responding, Engines 2, 6, Truck 6. No service required.

STILL. Tuesday, November 24, 12.15 M. Chimney fire in four-story brick block, 621 Elm street, owned by heirs of Daniel Connor, and occupied by Demas Dwinell. Members of Chemical responded. No service required.

STILL. Tuesday, November 24, 4.18 P. M. Two-and-a-half-story wooden tenement house, No. 30 Orange street, owned by Oliver B. Green, and occupied by Wilford Farland. Slight fire in closet from some unknown cause.

STILL. Wednesday, November 25, 11.10 P. M. Two-and-a-half-story tenement block, corner Central and Chestnut streets, owned by Precourt & Quirin. Cause, steam from drying plastering in unoccupied rooms. Chemical engine responded.

STILL. Friday, November 27, 12.05 M. One-story wooden "ten-footer," 382 Chestnut street, owned by Michael Gilbert, and occupied by Urbian Blanchet. Cause, smoke in basement from furnace. Chemical engine responded.

STILL. Tuesday, December 1, 7 P. M. Chimney fire in two-and-a-half-story wooden tenement block, 352 Pine street, owned by Mrs. W. M. Kendall. Chemical engine responded. No service required.

STILL. Tuesday, December 1, 9.10 P. M. Grass fire between Pearl and Orange streets, east of Belmont, on land of Mead, Mason & Company. Hose Company No. 2 responded with hose wagon.

STILL. Wednesday, December 2, 1.10 P. M. Brush and grass fire on land between Candia road and Island Pond road, between the Corey farms. Members of Engine Companies Nos. 3 and 7, and from Central Station responded. On duty  $2\frac{3}{4}$  hours.

STILL. Thursday, December 3, 10.17 A. M. Chimney fire in two-and-a-half-story tenement house, 123 Amherst street, owned by Harry Eaton, and occupied by Kate Lynch. Chemical engine responded. Used one pony and one chemical tank.

STILL. Thursday, December 3, 4.54 P. M. Chimney fire in tenement house, rear 186 Manchester street, owned by Mrs. Josephine Gilroy, and occupied by her and William Moran. Chemical engine responded. Used two pony extinguishers.

STILL. Thursday, December 3, 5.16 P. M. Chimney fire in eight-tenement wooden block, No. 57 Pearl street, owned by Nason Hall, and occupied by Octave Lariviere and others. Members of Hose Company No. 2 responded. Used one pony extinguisher.

Box 511. Thursday, December 3, 8.33 P. M. Two-and-a-half-story dwelling, No. 265 Douglas street, owned by Andrew Thompson, and occupied by him and Charles J. Danforth. Fire originated from an oil stove in tenement occupied by Danforth. Box pulled by citizen. Companies responding, Engines 2, 6, Truck 6. Value of building,

\$4,000; damage, \$57.09; insurance, \$3,000; insurance paid, \$57.09. Value of contents, \$400; damage, \$75. No insurance.

Box 5. Friday, December 4, 4.57 A. M. One-story wooden building, 58 West Central street, owned by Jeanette G. Morgan, and occupied by Sweet & Knapp as liquor saloon. Cause, cigar stub in sawdust cuspidor. Box pulled by officer. Companies responding, Engines 3, 4, Chemical, Trucks 1, 3. Value of building, \$5,000; damage, \$140; insurance, \$3,500; insurance paid, \$140. Value of contents, \$5,000; damage, \$625; insurance, \$3,000; insurance paid, \$625.

Box 21. Friday, December 4, 8.17 A. M. Four-story wooden tenement block, 7 Laurel avenue, owned by Mrs. Hugh McDonough, and occupied by several tenants. The fire started in partition near soil pipe from some unknown cause. Box pulled by citizen. Companies responding, Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$3,000; damage, \$125; insurance, \$666.67; insurance paid, \$125. No damage to contents.

STILL. Friday, December 4, 8.30 A. M. During progress of previous fire, telephone message announced fire in two-story house on Candia road, at Massabesic. Combination 2, Engines 3, 7, and Truck 3, owing to misunderstanding of telephone, responded, but were ordered back en route as fire was extinguished.

2—2—2. Friday, December 4, 5.35 P. M. A telephone call announced a fire in Devonshire Mills at Goffe's Falls, owned by Devonshire Manufacturing Company. Engine 4 and Hose 3 were immediately started "overland," and a special electric car of Manchester Street Railway quickly conveyed about thirty men to the fire. Cause, spontaneous combustion. The forces at mill had hydrant stream from reservoir on arrival. On duty 4½ hours. Value of building, \$2,500; damage, \$250; insurance (blanket); insurance paid, \$250. Value of contents, \$9,000; damage, \$4,500; insurance, \$10,000 (blanket); insurance paid, \$4,500.

STILL. Saturday, December 5, 7.09 P. M. Chimney fire in two-and-a-half-story wooden dwelling, 370 Marion street, owned by Patrick Flaherty, and occupied by two families. Members of Engine and Ladder Company No. 6 responded with hose wagon. Used two charges pony extinguisher.

STILL. Sunday, December 6, 2.45 A. M. Tenement house, 58 Orange street, owned by Oliver B. Green, and occupied by Peter N. Breault. Cause, fire in a coalhod. Chemical engine responded. No service required.

STILL. Sunday, December 6, 1.12 P. M. Chimney fire in wooden tenement house, 106 Notre Dame avenue, owned and occupied by Michael Kettle. Engine Company No. 2 responded. Used one pony extinguisher.

STILL. Sunday, December 6, 1.38 P. M. Sparks from chimney from previous fire ignited shingles on roof. Members of Engine Company No. 2 responded. Used two pony extinguishers.



Box 45. Sunday, December 6, 3.32 P. M. A small unoccupied house on Elm west back street, owned by Bridget Kearns. Cause, boys playing with matches. No damage. Companies responding, Engines 1, 2, Chemical, Hose 1, 3, Truck 1.

STILL. Sunday, December 6, 9.10 P. M. Some one telephoned from Chinese restaurant and reported a fire at corner Elm and Cedar streets. Chemical engine responded, but found no fire.

STILL. Sunday, December 6, 9.30 P. M. Chimney fire in two and half story tenement house, 58 Orange street, owned by Oliver B. Green, and occupied by Peter N. Breault. Members of Chemical Company responded. Used one pony extinguisher.

STILL. Wednesday, December 9, 1.11 P. M. One-story wooden building, 45 West Central street, owned by Manchester National Bank, and occupied by J. H. Mendell & Company as a carpenter and wood working shop. Cause, short-circuiting electric motor. Chemical engine responded. No service required.

STILL. Thursday, December 10, 8.15 A. M. A barn at 35 Dutton street, owned by Eben Bartlett of New Boston, and occupied by Bert H. Stone. Cause, spontaneous combustion among leaves and dressing in cellar. Hose Company No. 2 responded with hose wagon. Laid 250 feet hose from hydrant.

Box 15. Thursday, December 10, 9.53 A. M. Three-story wooden tenement house, rear 106 Bridge street, owned by Patrick Scollard, and occupied by several families. Cause, overheated chimney. Box pulled by citizen. Companies responding, Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 217. Tuesday, December 15, 12.02 M. Cottage house, 728 Mas-sabesic street, owned by Manley Clough, and occupied by Wm. B. Corey. Cause, unknown. Box pulled by citizen. Companies responding, Engines 3, 7, Hose 2, Combination 2, Truck 3. Value of building, \$2,000; damage, \$33.68; insurance, \$1,500; insurance paid, \$33.68; value of contents, \$900; damage, \$12; no insurance.

STILL. Wednesday, December 16, 6.50 P. M. Chimney fire in four-story brick tenement block, 61 Bridge street, owned by A. L. Gad-bois, and occupied by Celina Briggs. Chemical engine responded. Used one pony extinguisher.

STILL. Thursday, December 17, 12.20 M. Chimney fire in dwelling house, 21 Notre Dame avenue, owned and occupied by heirs of Josephine Marcel. Members of Engine Company No. 2 responded with Combination wagon. Used two pony extinguishers.

Box 26. Thursday, December 17, 5.50 P. M. Three-story wooden tenement block, 260 East High street, owned by Webster J. Martin and occupied by Edward F. Jones and Louis Felsher. Cause, unknown. Box pulled by Myers Felsher. Companies responding, Engines 3, 4, Hose 2, Combination 2, Truck 3. Used one pony extinguisher. Value of building, \$4,000; damage, \$37.50; insurance, \$2,500; insurance paid, \$37.50. No damage to contents.

Box 23. Saturday, December 19, 6.25 P. M. Smoke issuing from a three-story wooden tenement block, 205 Lake avenue, caused Arthur Verville to pull the box. Companies responding, Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

STILL. Sunday, December 20, 7.53 P. M. Cottage house, No. 172 Mystic street, owned by J. Gustafson, and occupied by A. Gillette. Cause, oil stove setting fire to bed and communicating to partition. Hose Company No. 3 responded. Laid 500 feet hose from hydrant. Value of building, \$1,400; damage, \$50; insurance, \$1,000; insurance paid, \$32.85.

STILL. Monday, December 21, 9.20 P. M. Three-story wooden building owned by Gordon Woodbury, and occupied by Frank P. Johnson. Cause, slight fire in pile of rubbish. Members of Engine Company No. 2 responded with Combination wagon. Used one pony extinguisher.

STILL. Tuesday, December 22, 8.50 A. M. Three-story wooden tenement block, 512 Maple street, owned by Charles Carpenter, Chichester, N. H., and occupied by Norris P. Johnson and others. Cause, overheated furnace, slight fire around register. Members of Hose Company No. 2 responded. Used two pony extinguishers.

STILL. Thursday, December 24, 1.20 P. M. Two-and-a-half-story double-tenement house, 481 Lincoln street, owned and occupied by heirs of Frank T. E. Richardson. Cause, hot air explosion, filling house with smoke. Members of Engine and Ladder Company No. 3 responded with hose wagon. No service required.

STILL. Friday, December 25, 6.09 P. M. Two-and-a-half-story tenement house, 130 Amherst street, owned by heirs of Dr. J. A. Jackson, and occupied by several Polish families. Cause, candles on Christmas tree. No service required.

STILL. Friday, December 25, 6.30 P. M. Two-story brick building, 64 Granite street, owned and occupied by E. M. Slayton Company. Cause, poor draft in chimney filled rooms with smoke. No service required.

STILL. Friday, December 25, 10.20 P. M. Two-and-a-half-story dwelling-house, 260 Merrimack street, owned and occupied by Michael J. Healy. Cause, defective fireplace. Chemical engine responded. Used one pony extinguisher. Value of building, \$5,000; damage, \$190; insurance, \$3,000; insurance paid, \$190. Value of contents, \$1,200; damage, \$50; insurance, \$500; insurance paid, \$50.

STILL. Tuesday, December 29, 3.30 P. M. Three-story wooden tenement block, 324 East High street, owned by Mrs. Mary Dillon, and occupied by C. J. Dillon and others. Cause, explosion of coal gas. Hose Company No. 2 responded with hose wagon. Laid 200 feet hose from hydrant.

STILL. Tuesday, December 29, 8.55 P. M. Four-story brick block, 861 Elm street, owned by Carpenter, Bond, Cleworth and Randlett,

and occupied by Leslie M. Folsom as dry goods and ladies' furnishings. Cause, cigar stub thrown through window-grating in sidewalk, burning window-casing and filling store with smoke. Value of building, \$40,000; damage, \$27.35; insurance, \$15,000; insurance paid, \$27.35.

STILL. Wednesday, December 30, 8.40 P. M. Chimney fire in three-story wooden building, 1247 Elm street, owned by W. D. Young, and occupied by W. F. Barry. Chemical engine responded. Used one pony extinguisher.

STILL. Wednesday, December 30, 9.10 P. M. Three-story wooden tenement block, 1247-53 Elm street, owned by W. D. Young, and occupied by D. F. Barry and Malvern Libbey. Cause, overheated stove, setting fire to woodwork around a closet. Chemical engine responded. Used one pony extinguisher. Value of building, \$40,000; damage, \$20; insurance, \$20,000; insurance paid, \$20. No damage to contents.

STILL. Wednesday, December 30, 5.30 P. M. Chimney fire in two-and-a-half-story wooden dwelling, 154 Cartier street, owned by Hanson R. Armstrong, and occupied by two families. Members of Engine and Ladder Company No. 6 responded with hose wagon. Used two pony extinguishers.

STILL. Wednesday, December 30, 10.10 P. M. Wooden tenement block, 514 Maple street, owned by Charles Carpenter of Chichester, N. H., and occupied by Thomas Hickey and others. Cause, mantle paper too near stovepipe. Members of Hose Company No. 2 responded with hose wagon. No service required.

Number of alarms by months:

	Box	Still	Total
January .....	11	43	54
February .....	9	26	35
March .....	4	14	18
April .....	9	55	64
May .....	9	11	20
June .....	12	13	25
July .....	8	20	28
August .....	8	12	20
September .....	8	7	15
October .....	14	24	38
November .....	6	20	26
December .....	9	28	37
	107	273	380

## COMPANIES RESPONDING

MONTHS.	ENGINES.							Chemical.	HOSE.			Comb'n 2.	TRUCKS.			
	1	2	3	4	5	6	7		1	2	3		1	3	5	6
January .....	5	3	8	5	2	3	1	21	10	3	5	1	8	8	2	3
February .....	4	1	2	5	4	0	2	10	7	4	2	3	4	3	3	0
March .....	3	0	3	1	1	0	1	9	3	2	2	0	2	3	1	0
April .....	2	2	1	2	4	4	2	7	3	2	10	5	3	2	1	2
May .....	2	4	2	3	2	4	0	4	5	2	0	0	4	2	1	4
June .....	3	2	6	3	1	1	3	9	4	4	4	3	3	7	1	1
July .....	1	0	3	3	0	0	4	6	0	5	3	5	1	4	0	0
August .....	7	0	3	2	3	0	2	12	5	5	5	2	5	4	3	0
September .....	5	1	4	4	1	0	0	7	7	3	1	0	5	4	2	1
October .....	6	1	6	8	5	1	2	22	13	3	7	3	10	7	5	1
November .....	4	1	2	4	2	1	0	18	3	4	2	1	4	3	2	1
December .....	3	2	7	5	1	1	2	17	5	7	4	3	4	6	1	1
	45	17	47	45	26	15	19	142	65	44	45	26	53	53	22	14

## Estimated Value of Property.

## Engine No. 1.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer .....	\$4,000.00
1 one-horse wagon .....	400.00
3 horses for steamer .....	775.00
1 gray horse for hose wagon .....	200.00
4 swinging harnesses .....	200.00
1 pair double exercise harnesses .....	50.00
1 single exercise harness .....	40.00
2,050 feet of fabric hose .....	922.50
Stable fixtures, blankets, etc .....	80.00
Tools, furniture, and fixtures .....	200.00
Firemen's suits and badges .....	125.00
Total amount .....	\$6,992.50

**Engine No. 2.**

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer.....	\$4,000.00
1 Combination Chemical and hose wagon.....	1,700.00
1 exercise wagon, poles, shafts, and three-horse hitch..	250.00
3 horses for steamer.....	600.00
1 pair horses for hose wagon.....	400.00
3 exercise harnesses, 2 at \$40, 1 at \$20.....	100.00
5 swinging harnesses .....	250.00
1 double sled.....	60.00
3,300 feet of fabric hose.....	1,485.00
Stable fixtures and blankets.....	94.00
Furniture, fixtures, carpets, etc.....	466.00
Firemen's suits and badges.....	125.00
Total amount .....	<u>\$9,530.00</u>

**Engine and Ladder No. 3.**

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 first-size Amoskeag steamer.....	\$4,750.00
1 two-horse hose wagon.....	400.00
1 three-horse truck and equipments.....	1,900.00
3 horses for steamer.....	550.00
1 pair bay horses for hose wagon.....	400.00
3 horses for truck .....	600.00
4 exercise harnesses.....	180.00
8 swinging harnesses .....	400.00
2,950 feet of fabric hose.....	1,327.50
Stable fixtures, blankets, etc.....	80.00
Beds, bedding, carpets, hall furniture, etc.....	575.00
Firemen's suits and badges .....	150.00
1 exercise wagon .....	250.00
Total amount .....	<u>11,562.50</u>

**Engine No. 4.**

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,200.00
1 hose wagon .....	400.00
3 horses for steamer .....	600.00



1 horse for wagon.....	\$150.00
4 exercise harnesses .....	60.00
4 swinging harnesses .....	200.00
2,000 feet of fabric hose.....	900.00
Hall furniture, beds, bedding, etc.....	275.00
Stable fixtures and blankets.....	75.00
Firemen's suits and badges.....	125.00
Total amount .....	<u>\$6,985.00</u>

### Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer.....	\$3,600.00
1 two-horse rubber-tired hose wagon.....	760.00
1 steel frame ladder truck.....	1,650.00
1 pair bay horses for steamer.....	400.00
1 pair bay horses for truck.....	400.00
1 pair horses for hose wagon.....	525.00
1 exercise wagon .....	325.00
1 double sled .....	50.00
1 single sled .....	25.00
6 swinging harnesses .....	300.00
2 pairs exercise harnesses.....	100.00
2,100 feet of fabric hose.....	945.00
Bedding, furniture, tools, etc.....	307.00
Stable, fixtures, blankets, etc.....	120.00
Firemen's suits, badges, etc.....	150.00
Total amount .....	<u>\$9,657.00</u>

### Engine and Ladder No. 6

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer.....	\$3,500.00
1 hook-and-ladder truck (with Bangor extension).....	1,680.00
1 two-horse rubber-tired hose wagon.....	760.00
1 exercise wagon .....	290.00
2 gray horses for steamer.....	300.00
2 bay horses for truck.....	267.00
2 horses for hose carriage .....	450.00
6 swinging harnesses .....	300.00
1,800 feet of fabric hose.....	810.00



Hall furniture, carpets, beds, bedding, etc.. .....	\$475.00
Stable fixtures, blankets, etc.....	85.00
Firemen's suits and badges .....	150.00
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Total amount .....	\$9,067.00

### Engine No. 7.

LOCATED ON SOMERVILLE STREET.

1 second-size Amoskeag steamer.....	\$3,500.00
1 two-horse rubber-tired hose wagon.....	760.00
1 exercise wagon .....	325.00
3 horses for steamer .....	850.00
2 horses for hose wagon.....	575.00
5 swinging harnesses .....	250.00
2,350 feet of fabric hose .....	1,057.50
Furniture, fixtures, etc.....	575.00
Stable fixtures, blankets, etc.....	90.00
Firemen's suits and badges.....	125.00
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Total amount .....	\$8,107.50

### Hose No. 1.

LOCATED ON VINE STREET.

1 two-horse rubber-tired hose wagon.....	\$760.00
2 horses .....	600.00
2 swinging harnesses .....	100.00
1 set Hobbs' runners .....	90.00
1 hose sled .....	20.00
2,300 feet of fabric hose.....	1,035.00
Furniture and fixtures.....	200.00
Beds, bedding, etc.. .....	60.00
Stable fixtures and blankets .....	50.00
Firemen's suits and badges.....	100.00
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Total amount .....	\$3,015.00

**Hose No. 2.**

LOCATED ON MAPLE STREET, CORNER OF EAST HIGH.

1 two-horse hose wagon.....	\$600.00
2 bay horses .....	500.00
2 swinging harnesses .....	100.00
1 exercise wagon .....	325.00
2,100 feet of fabric hose .....	945.00
Furniture and fixtures, beds and bedding.....	150.00
Firemen's suits and badges.....	100.00
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Total amount .....	\$2,720.00

**Hose No. 3.**

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon (with ladders).....	\$1,000.00
1 pair gray horses .....	100.00
1 pair swinging harnesses .....	100.00
1 pair exercise harnesses .....	50.00
1 exercise wagon .....	260.00
2,000 feet of fabric hose.....	900.00
Furniture, fixtures, bedding, etc.....	85.00
Stable fixtures, blankets, etc.....	65.00
Firemen's suits and badges .....	80.00
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Total amount .....	\$2,640.00

**Combination Hose and Chemical No. 2.**

LOCATED ON WESTON STREET, CORNER OF CONCORD.

1 Combination Chemical and hose wagon.....	\$1,700.00
2 bay horses .....	550.00
2 swinging harnesses .....	100.00
1 exercise wagon.....	250.00
1,900 feet of fabric hose.....	855.00
Furniture, fixtures, bedding, etc.....	482.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges .....	80.00
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Total amount .....	\$4,067.00

**Hook and Ladder Company No. 1.**

LOCATED ON VINE STREET.

1 aërial hook-and-ladder truck.....	\$4,200.00
3 horses .....	600.00
3 exercise harnesses .....	75.00
3 swinging harnesses .....	150.00
2 extra Bangor extension ladders.....	360.00
3 rubber blanket covers.....	72.00
Furniture and fixtures .....	200.00
Beds, bedding, and furniture .....	75.00
Stable fixtures and blankets.....	60.00
Firemen's suits and badges .....	150.00
Total amount .....	\$5,942.00

**Chemical Engine No. 1.**

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine.....	\$2,250.00
1 pair bay horses.....	500.00
1 pair of exercise harnesses.....	50.00
1 pair swinging harnesses.....	100.00
Furniture and fixtures.....	75.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	35.00
Total amount .....	\$3,060.00

**Supply Wagon.**

1 supply wagon, with coal boxes.....	\$150.00
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**Exercise Wagon.**

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes.....	\$250.00
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**Spare Hose Carriages and Hose.**

3 one-horse hose carriages (spare).....	\$450.00
2,900 feet old hose for relining.....	580.00
2,900 feet new hose .....	245.00
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	\$1,275.00

**E. W. Harrington Steam Fire Engine.**

STORED AT SHEDS OF ENGINE NO. 2.

Old U tank Amoskeag engine (worth for exchange).....	\$200.00
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**Engineers' Department.**

1 bay horse .....	\$325.00
1 chief's wagon .....	275.00
1 swinging harness .....	37.00
5 engineers' white rubber coats.....	37.50
5 engineers' lanterns ..	20.00
Blanket, robe, etc.....	15.00
Furniture and fixtures.....	150.00
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Total amount .....	\$859.50

**Riverside Hose Company No. 5.**

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage.....	\$400.00
800 feet of leather hose.....	200.00
800 feet of fabric hose.....	240.00
2 hose-pipes, spanners, etc.....	40.00
Furniture and fixtures .....	10.00
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Total amount .....	\$890.00

**Hallsville Hose Company No. 6.**

LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC STREET.

1 four-wheeled hose carriage.....	\$200.00
500 feet of fabric hose.....	150.00
Nozzle, wrenches, etc.....	15.00
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Total amount .....	\$365.00

**Goffe's Falls Hose Carriage.**

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose carriage.....	\$30.00
Old fabric hose .....	60.00
2 hosepipes .....	10.00
Total amount .....	<u>\$100.00</u>

**Pond Road Hose Carriage.**

LOCATED IN BASEMENT OF W. P. FARMER'S BARN.

1 two-wheeled hose carriage .....	\$30.00
500 feet of leather hose.....	100.00
Total amount .....	<u>\$130.00</u>

**Sleeping Hall.**

AT CENTRAL STATION, VINE STREET.

Beds, bedding, wardrobe, etc.....	\$150.00
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**Extra Horses.**

1 black horse .....	\$275.00
1 gray horse .....	200.00
Total amount .....	<u>\$475.00</u>

**Fire Alarm Telegraph.**

At cost, including additions.....	\$23,550.00
Remodeling in 1885 .....	6,000.00
"Individual tapper" system .....	4,000.00
Boxes and wire added in 1907.....	1,000.00
Storage battery .....	1,850.00
Switch protector board.....	175.00
Wire, brackets, and tools.....	400.00
Box and wire added in 1908.....	200.00
Repair wagon .....	150.00
Total amount .....	<u>\$37,325.00</u>

## Recapitulation.

Engine Company No. 1.....	\$6,992.50
Engine Company No. 2.....	9,530.00
Engine and Ladder Company No. 3.....	11,562.50
Engine Company No. 4.....	6,985.00
Engine and Ladder Company No. 5.....	9,657.00
Engine and Ladder Company No. 6.....	9,067.00
Engine Company No. 7.....	8,107.50
Hose Company No. 1.....	3,015.00
Hose Company No. 2.....	2,720.00
Hose Company No. 3.....	2,640.00
Combination Hose and Chemical No. 2.....	4,067.00
Hook and Ladder Company No. 1.....	5,942.00
Chemical Engine Company No. 2.....	3,060.00
Supply wagon .....	150.00
Exercise wagon at Central Station .....	250.00
Spare hose carriages and hose .....	1,275.00
Engineer's Department .....	859.50
Riverside Hose Company .....	890.00
Hallsville Hose Company .....	365.00
Goffe's Falls Hose Carriage .....	100.00
Pond road Hose Carriage .....	130.00
Sleeping hall, Central Station .....	150.00
Extra horses .....	475.00
Fire-alarm telegraph .....	37,325.00
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	\$125,315.00

## BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief.....	Chief engineer.....	1937 Elm.
2	Clarence R. Merrill .....	Assistant.. .....	Grain dealer.....	414 Merrimack.
5	John F. Seaward.. .....	" .....	Carpenter.....	27 Warren.
3	Arthur Provost.....	" .....	Wool-sorter.....	526 Notre Dame av
4	Thomas F. Fitzsimmons	" .....	Painter .....	258 Notre Dame av



## ENGINE COMPANY No. 1.

*House, 28 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
15	George F. Millar .....	Captain .....	Gasfitter .....	15 Blodget.
19	Charles H. Fraser .....	Lieutenant ... ..	Carpenter .....	363 Concord.
11	Frank H. Harvey .....	clk & driver eng.	Teamster .....	28 Vine.
6	Charles F. Hall .....	Engineer .. .....	Engineer .. .....	"
8	Frank E. Stearns .....	Asst. engineer..	Paper hanger ....	450 Merrimack.
12	Clarence F. Kemp .....	Driver hose .....	" .....	28 Vine.
9	Lewis G. Bryant .....	Hoseman .....	Carpenter .....	417 Central.
17	Melvin Walker .....	" .....	" .....	6 Canal.
13	Stanley H. Patten .....	" .....	Tinsmith .....	12 Pearl.
10	George E. Boulton .....	" .....	Coachman .....	355 Amherst.
14	Henry A. Burns .....	" .....	Loom fixer .....	424 Amherst.
16	Harry E. Belknap .....	" .....	Carpenter .....	580 Wilson.
18	Lester C. Rhodes .....	" .....	Machinist .....	477 Belmont.
7	George W. Booth .....	" .....	" .....	21 Water.

## ENGINE COMPANY No. 2.

*House on North Main Street, 'Squog.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
76	Jeremiah Lane .....	Captain.....	Permanent man..	210 No. Main.
68	James E. Perrigo .....	Lieutenant.....	Foreman .....	77 School.
67	Archibald A. Gorham..	Clerk .....	U. S. B. & S. Co. Machinist .....	50 Barr.
120	Charles Edgar .....	Engineer .....	Engineer .....	12 Dover.
119	Stephen Thomes.....	Asst. engineer ..	Carpenter .....	55 Douglas.
72	Albert M. Tuson.....	Driver of engine	Teamster.....	Engine house.
69	Arthur W. Whitcomb...	Driv.combin'tion	" ..	66 No. Main.
77	William Arnold.....	Hoseman .....	Barber. ....	17 So. Main.
71	John W. Gott.....	" .....	Wool sorter .....	53 Douglas.
70	Gideon Lariviere .....	" .....	Carpenter.....	20 Notre Dame av.
75	Ernest R. Whitcomb....	" .....	Wool sorter .....	66 No. Main.
74	Oscar G. Lagerquist....	" .....	Clerk .....	72 Second.
66	John A. Gemmell.....	" .....	" .....	27 Adams.
73	Joseph P. Jennings....	" .....	Cloth inspector..	262 Conant.

## ENGINE AND LADDER COMPANY No. 3.

*House on Lake Avenue, corner of Massabesic.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter.....	Captain.....	Captain.....	330 E. Spruce.
97	Edwin C. Paul . . . . .	Lieut. of truck..	Collector . . . . .	372 Lake ave.
148	Orrin S. Coburn... . . . .	" engine..	Clerk . . . . .	279 Laurel.
88	George Taylor.....	Clerk . . . . .	Mechanic.....	519 Lake ave.
122	John P. Walker.....	Engineer . . . . .	Machinist . . . . .	403 Hall.
80	Clarence Hackett.....	Asst. engineer..	Laundryman.....	410 Belmont.
105	Herbert E. Dunbar.....	Driver of engine	Teamster.....	366 Lake ave.
81	William S. McLeod.....	Driver of hose...	" . . . . .	454 Lake ave.
82	Lyman W. Piper.....	Driver of truck..	" . . . . .	398 Merrimack.
85	John W. Finn.....	Fireman... . . . .	Painter.....	501 Wilson.
89	Parker R. Brown.....	" . . . . .	Grain dealer.....	422 Merrimack.
43	Edson F. Wyman.....	" . . . . .	Manufacturer... . .	368 E. Spruce.
121	Arthur S. Brown.....	" . . . . .	Grain-dealer.....	308 Lake ave.
78	Nelson T. Wheelock....	" . . . . .	Quarryman.....	477 Belmont.
84	George L. Slack . . . . .	" . . . . .	Salesman . . . . .	141 Massabesic.
114	John D. French.....	" . . . . .	Liveryman.....	132 Massabesic.
150	William T. Winslow . . .	" . . . . .	Shoe-cutter.....	422 Lake ave.
98	William B. Blake.....	" . . . . .	Health officer.....	265 Cypress.
87	Christopher J. Cruise...	" . . . . .	Merchant.....	429 Central.
79	Hary J. Smith . . . . .	" . . . . .	Clerk. . . . .	447 Spruce.

## ENGINE COMPANY No. 4.

*House, No. 20 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
28	John H. Wales, Jr.....	Captain.....	Brick-mason.....	41 M. S. B.
33	Thomas W. Lane, Jr....	Lieutenant.....	Electrician.....	20 Malvern.
23	George Thompson.....	Clerk .....	Clerk.....	85 Salmon.
21	Joseph H. Gould....	Engineer.....	Machinist .....	20 Vine.
27	Edward Sargent.....	Asst Engineer..	" .....	73 Amherst.
31	George A. Cann.....	Driver of engine.	Teamster.....	20 Vine.
37	Henry C. Parsons.....	Driver of hose...	" .....	20 Vine.
22	Walter A. Clarkson ...	Hoseman.....	Carpenter.....	301 Walnut.
25	Frank B. Stevens.....	" .....	Clerk.....	144 Blodget.
32	Luther A. Knight.....	" .....	Engineer.....	16 Stark.
30	Jamés C. Newton.....	" .....	Machinist.....	93 Blodget.
20	Fred H. Cate.....	" .....	Clerk.....	601 Cedar.
26	Louis E. Way.....	" .....	Machinist.....	20 Vine.
24	Adams L. Greer.....	" .....	Piano dealer .....	76 Lowell.

## ENGINE AND LADDER COMPANY No. 5.

*House, No. 44 Webster Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
161	Irving S. Bryant. ....	Captain.....	Second hand .....	884 Union.
49	Charles W. Brown .....	Lieut. truck .....	Clerk .....	95 Harrison.
46	Woodbury Davison.....	Lieut. engine....	Carpenter .....	32 Myrtle.
108	Edwin L. Towle.....	Clerk .....	Salesman.....	71 N. Adams.
102	Walter Morse.....	Engineer .....	Machinist .....	40 Webster.
99	Will G. Fraser.....	Asst. engineer...	Electrician.....	Ash.
125	Emil H. Smith .....	Driver engine....	Teamster.....	44 Webster.
124	Benjamin C. Cann .....	Driver truck.....	" .....	44 Webster.
83	Ernest E. Hubbell .....	Driver hose.....	" .....	44 Webster.
123	Charles H. Gile.....	Hoseman.....	Carpenter .....	896 Union.
158	Andrew S. Fantom.....	" .....	Cigar-maker.....	676 Maple.
101	Charles W. Warner.....	" .....	Electrician .....	75 Sagamore.
126	Edwin M. Dorney . ....	" .....	Tinsmith .....	254 Walnut.
41	Max Hawkins.....	" .....	Clerk .....	637 Pine.
159	Charles E. Longa.....	" .....	" .....	10 N. Adams.
160	Maurice Hoffman.....	" .....	" .....	321 Walnut.
162	Alfred Anderson.....	" .....	Brush-maker.....	267 Walnut.
42	Arthur S. Hamilton.....	" .....	Painter.....	52 Pennacook.
47	George H. Carey....	" .....	Machinist.....	1419 Elm
95	William W. Cupples....	" .....	Clerk .....	321 Walnut.

## ENGINE AND LADDER COMPANY No. 6.

*House on Amory and Rimmon Streets.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
141	Mederique R. Maynard.	Captain .....	Grocer. ....	302 Cartier.
147	James A. Farley .....	Lieut. engine ...	Machinist .....	385 Dubuque.
146	Toussaint Tremblay ...	Lieut. truck .....	Carpenter .....	421 Hevey.
145	John E. Herring .....	Clerk .....	Loom-fixer .....	589 Main.
132	Toby Lemay .....	Engineer .....	Machinist .....	464 Cartier.
133	Alcide Provencher ....	Asst. Engineer ..	" .....	86 Putnam.
134	Alphonso E. Foster ....	Driver of engine	Teamster .....	Engine-house.
140	Clarence A. Whitcomb..	Driver hose .....	" .....	"
142	Frank St. John .....	Driver truck ...	" .....	"
129	John Martin .....	Hoseman .....	Machinist .....	624 No. Main.
128	John H. McCabe .....	" .....	Collector .....	310 No. Main.
130	Calvin Brinn .....	" .....	Loom-fixer .....	356 Rimmon.
136	Roumelt Cote .....	" .....	Plumber .....	291 Dubuque.
139	Henry Klaubert .....	" .....	Loom-fixer .....	25 Schuyler.
138	Hector Defosses .....	" .....	Painter .....	538 Dubuque.
131	Arthur J. Provost .....	" .....	Wool-sorter .....	516 Notre Dame <sup>[ave.]</sup>
143	William Broderick .....	" .....	Loom-fixer .....	513 Rimmon.
144	John Montplaisir .....	" .....	Mill operative .....	454 Dubuque.
137	John J. Lyons .....	" .....	Loom-fixer .....	17 Columbus.
135	Patrick J. O'Connell .....	" .....	Painter .....	334 Main.



## ENGINE COMPANY No. 7.

*House, Somerville Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
170	James J. Collins ....	Captain .....	Perman't Captain .	187 Belmont.
171	Leslie W. Dolloff .....	Lieutenant .....	Clerk .....	427 Central.
177	Ernest E. Austin .....	Clerk .....	Electrician .....	43 Welch Ave.
173	Fred S. Morrill .....	Engineer .....	Engineer .....	136 Hall
174	Louis Ross .....	Asst. Engineer..	Machinist .....	746 Hayward.
175	Arthur Hebert ....	Driver engine ...	Teamster .....	284 Silver.
176	George N. Rogers .....	Driver hose ....	Teamster .....	173 Taylor.
172	Wm. F. O'Malley .....	Hoseman .....	Clerk .....	153 Belmont.
178	Charles J. Beliveau ....	" .....	Boxmaker .....	931 Hayward.
179	Louis Loiselle .....	" .....	Bleacher .....	890 Clay.
180	William J. Kennedy ....	" .....	Gas Co. ....	274 Beech.
181	John W. Chapman .....	" .....	Carpenter .....	890 Clay.
182	William L. Comire .....	" .....	Harnessmaker ...	159 Hall.
183	Henry W. Barnard .....	" .....	Mechanic.. .....	213 Jewett.

## HOSE COMPANY No. 1.

*House, No. 26 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
51	Edwin W. Merrill.....	Captain.....	Clerk .....	166 Blodget.
52	Charles H. French.....	Lieutenant.....	Electrician .....	7 Water.
48	Albert A. Puffer .....	Clerk .....	Teamster .....	499 Beech.
29	Charles H. Rogers.....	Driver.....	" .....	26 Vine.
45	George I. Ayer.....	Hoseman.....	Electrician.....	2 M. S. B.
53	Albert W. Tucker .....	" .....	Laborer .....	18 Brown Ave.
34	Harry Barrett.....	" .....	Machinist .....	148 Concord.
36	Alfred Firth.....	" .....	Machinist.....	4 Derry.
50	Charles Skinner .....	" .....	Car Inspector.....	335 E. High.
38	Sumner N. Patten .....	" .....	Belt maker.....	3 M. S. B.
93	Karl A. Klaubert....	" .....	Machinist....	37 M. S. B.
35	James B. Flanders.....	" .....	" .....	351 E. High.

## HOSE COMPANY No. 2.

*House on Maple Street, corner East High.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
64	Melvin W. Worthen ....	Captain.....	Carpenter .....	525 Maple.
55	Revalo G. Houghton.....	Lieutenant .....	Gas-fitter.....	337 Lowell.
54	Thomas P. Burnap .....	Clerk .....	" .....	80 Arlington.
57	Ellsworth V. Rowe.....	Driver.....	Teamster .....	525 Maple.
58	Thomas Smith.....	Hoseman.....	Carpenter....	24 South.
56	Fred W. Corey.....	" .....	Needle-maker ....	497 Maple.
61	Fred H. Humphrey.....	" .....	Carpenter.....	61 Ash.
65	Walter Seaward.....	" .....	" .....	58 Arlington.
62	Edwin A. Leavitt.....	" .....	" .....	690 Belmont.
63	Alfred F. Eaton .....	" .....	Shoemaker .....	260 Laurel.
60	Albert L. Worthen... ..	" .....	Plumber.....	43 Nashua.
59	Frank G. Miller .....	" .....	Gas-fitter ....	246 East High.

## HOSE COMPANY No. 3.

*House, South Elm Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
110	Albert W. Smith.....	Captain.....	Fireman.....	42 Elm.
157	Frank D. Hardy.....	Lieutenant.....	Yard conductor...	34 Elm ave.
156	Celon D. Stevens.....	Clerk.....	" ..	164 Calef road.
152	Frank W. Tebbetts.....	Driver.....	Teamster.....	7 Elm.
153	James H. McKenzie.....	Hoseman.....	Sash-maker.....	72 Elm.
154	William P. Hall.....	" ..	" ..	39 Elm.
151	Forest M. Laraba.....	" ..	Laundryman.....	102 Baker.
155	William E. Gaer.....	" ..	" ..	20 Cheney pl.
163	Lorenzo D. H. Ford*....	Driver.....	Teamster.....	273 Pearl.
149	Frank E. Nute*.....	" ..	" ..	425 Merrimack.

\* Detailed for department spare drivers.

## HOOK AND LADDER COMPANY No. 1.

*House, 18 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roscoe Dyer .....	Captain.....	Machinist.....	8 Oak.
92	Oscar P. Stone.....	Lieutenant.....	Clerk .....	312 Manchester.
91	George H. Hammond ...	Clerk .....	Carpenter.....	340 Manchester
94	Asa W. Gage .....	Driver.....	Teamster.....	18 Vine.
118	Frank A. Pherson.....	Fireman.....	Machinist.....	18 Vine.
104	Harrison H. Cole.....	" ..	Carpenter.....	883 Union.
109	George M. Jones .....	" ..	Gardener.....	23 Myrtle.
107	Henry Heap .....	" ..	Manufacturer . .	18 Vine.
90	Henry Johnson .....	" ..	Steam-fitter.....	316 Walnut.
96	Frank H. Cole .....	" ..	Machinist.....	45 M. S. B.
93	Fred W. Bond.....	" ..	Second-hand.....	43 Stark.
112	Thomas D. Chilton.....	" ..	Machinist.....	18 Mechanic.
100	William P. Jones .....	" ..	Steam-fitter.....	318 Lake av.
113	Lewis Swanson .....	" ..	Carpenter.....	42 M. S. B.
106	Ernest E. Johnson .....	" ..	Steam-fitter.....	316 Walnut.

## CHEMICAL ENGINE COMPANY No. 1.

*House, 8 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
115	Hervey E. Harris.....	Captain.....	Permanent man...	249 Concord.
116	Clarence D. Palmer.....	Clerk.....	Marble dealer.....	537 Union.
103	Benjamin R. Richardson	Driver.....	Machinist.....	21 Ash.
185	Robert H. Duncan .....	Pipeman.....	Needlemaker .....	406 Hanover.
117	Robert W. Turnbull ...	Fireman.....	Machinist.....	8 Vine.

## COMBINATION COMPANY No. 2.

*Wilson Hill, corner Weston and Concord Streets.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
164	Alfred Gustafson.....	Captain.....	Machinist.....	[Weston. Concord and
166	Joseph W. Lindsay.....	Lieutenant.....	Tinsmith.....	333 Pearl.
127	Michael J. Bradley.....	Clerk .....	Gasfitter.....	125 Ashland.
167	Henry C. Crosby.....	Driver .....	Teamster.....	453 E. High.
168	Angus McDonald.....	Hoseman .....	Blacksmith.....	427 Laurel.
40	William Anderson .....	" .....	Mill operative.....	465 E. High.
169	William Merrill .....	" .....	" " .....	449 Laurel.
165	Homer L. Brewer.....	" .....	Janitor .....	536 Hall.
184	John T. Duncan*.....	" .....	Loom-fixer....	152 Pearl.
44	Waldo J. McCauley †. ...	" .....	Teamster .....	927 Union.

\*Detailed for Department as spare driver.

†Detailed as driver of supply wagon.

# REPORT OF INSPECTOR OF BUILDINGS.





## REPORT OF THE INSPECTOR OF BUILDINGS.

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*To His Honor the Mayor and the Board of Aldermen:*

GENTLEMEN:—The inspector of buildings herewith submits his report for the year 1908: The number of permits for new buildings was 127; estimated cost, \$414,040; for alterations and repairs, 171; estimated cost, \$171,245. Number of building permits issued in each year since the establishment of the office, May 18, 1899: 1899, 208; 1900, 232; 1901, 261; 1902, 203; 1903, 278; estimated cost, \$549,500; 1904, 263, estimated cost, \$512,919; 1905, 266, estimated cost, \$563,838; 1906, 322, estimated cost, \$811,828; 1907, 313, estimated cost \$733,000.

Edwin S. Foster, inspector of buildings, departed this life July 4, 1908. S. A. Sprague, appointed July 21, filled out the unexpired term.

Respectfully submitted,

S. A. SPRAGUE,

*Inspector of Buildings.*



REPORT  
OF THE  
TRUSTEES OF THE CITY LIBRARY.

# MANCHESTER CITY LIBRARY, 1908.

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## Trustees.

Eugene E. Reed, *Mayor, ex officio.*  
W. Parker Straw, *President of the Common Council, ex officio.*  
Frank P. Carpenter. Term expires 1909.  
William P. Farmer. Term expires 1910.  
Henry W. Boutwell. Term expires 1911.  
Roger G. Sullivan. Term expires 1912.  
Walter M. Parker. Term expires 1913.  
Herman F. Straw. Term expires 1914.  
Edwin F. Jones. Term expires 1915.

## Officers.

PRESIDENT, *ex officio.*

Eugene E. Reed.

CLERK AND TREASURER.

Edwin F. Jones.

## Librarian.

F. Mabel Winchell.

## Assistants.

E. Louise Newell, classifier.	Charles S. Costigan.***
Mrs. Edith O. Emery, cataloger.	William Vincent.†
Charles S. Morgan.	Eugene S. Clark.‡
Albro P. Reed.*	Mary E. Chamberlin.
Harold C. Brown.**	Carleton F. Hamer.§
Arthur R. Leavitt.	Louise H. Hazard.¶

## Library Hours.

10 A. M. to 8 P. M., Saturdays till 9 P. M.  
Sundays (for reading and reference) 11 A. M. to 5 P. M.

\* Sundays only.

\*\* Resigned September 14.

\*\*\* Resigned July 18.

† From January 21.

¶ Substituted from September 30 to October 31.

‡ From March 9.

|| From September 21.

§ From September 21.

## REPORT OF THE TRUSTEES OF THE CITY LIBRARY.

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*To the Board of Mayor and Aldermen:*

In behalf of the trustees of the City Library I would report that the trustees have expended the appropriation of seven thousand dollars for the general management and maintenance of the institution as well as the one thousand dollars appropriated for the purchase of books. The rules and regulations, which were amended in 1907, remained unchanged, and the conduct of the library was in the hands of the same librarian, Miss Winchell. During the year from the appropriations and the income of the various funds there were expended in the purchase of books, magazines and newspapers twenty-four hundred sixty-four and fifty-two hundredths dollars. The library was patronized more by the citizens than ever before and the need of better and lighter quarters was made fully manifest. In the report to the trustees made by the librarian, which is submitted herewith, may be found the detailed facts of the conduct of the library for the year.

EDWIN F. JONES,  
*Clerk.*

## LIBRARIAN'S REPORT.

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*To the Trustees of the City Library, Manchester, N. H.:*

GENTLEMEN:—The fifty-fifth annual report of the City Library for the year 1908 is herewith submitted for your consideration.

### REGISTRATION.

This year, like its predecessor, has been one of steady progress. On the first day of the year a new registration was begun. The last registration dated from July 31, 1880, more than twenty-seven years ago, and had become burdened with the names of very many who had died or left the city. Probably two thirds of the cards on file were no longer in use. The new rules, which went into effect last year, provide for a re-registration every five years, so we shall doubtless never be troubled again with such an accumulation. Of those who have registered during the year 1,481 were old borrowers and 1,158 were new ones. The large proportion of new borrowers is without doubt due to the abolishing of the age limit, which makes it possible for children to have cards as soon as they are able to read. The small number of old borrowers is largely due to the fact that many have delayed renewing their cards. The whole year has been allowed for this renewal in order that all might have ample time to attend to the matter without inconvenience. With the beginning of 1909, cards which have not been renewed cannot be used until the borrower has re-registered.

### CIRCULATION.

In last year's report we stated that the circulation for each month of 1907 showed an increase over the corresponding month of 1906, and that the gain for the year was 7,751, or about 12 per cent. This year our showing is even better, for we can again report an increase for each month over the corresponding month of the previous year, and this time a gain in the circulation of 15,796, more than double that of last year. This is a gain of nearly 22 per cent over 1907 and of 36 per cent over 1906. This would certainly seem to indicate that the library is gaining in popularity and usefulness. The home circulation for this year is not only the largest on record but exceeds by eight thousand that of any previous year.



## SCHOOLS.

The more liberal provision made by the new rules for issuing books to the schools has resulted in nearly doubling the number sent, though many of the schools have not yet availed themselves of this privilege.

Some of the teachers have taken the trouble to keep account of the number of times the books have circulated while at the schools, though this is not required of them, and this partial record shows nearly 1,000 issues. The record kept was for only one sixth of the number of books sent out, and if the other five sixths circulated in the same proportion this circulation at the schools would amount to 5,682. This really should be added to the home circulation to give a just estimate of the amount of use the books have had and of the influence the library is exerting. Many of these books go into homes where library books have been unknown and are often read by older members of the families as well as by the scholars who borrow them. This would bring our home circulation up to 94,147 volumes, which would seem a more accurate statement though based upon estimate.

## OTHER AGENCIES.

A start has also been made in sending books to the Young Men's Christian Association, a collection of fifty having been sent at two different times in the fall.

The engine houses and car barns are two other places where books should be sent, for at both these places men have time on their hands which they might spend with enjoyment and profit in reading were books supplied.

## VACATION BOOKS.

Books for vacation reading were allowed for the first time this year and eighty-six people availed themselves of the privilege of taking books with them when they went out of town. Those who made use of this new provision expressed themselves as greatly pleased with an arrangement which allowed them to have half a dozen books at the time when they had most leisure for reading though not the opportunity of frequenting the library. Doubtless another year, when the provision has become more generally known, many more will avail themselves of this opportunity for vacation reading.

## MEDICAL LIBRARY.

In the spring the large accumulation of old and duplicate books and government documents which had been stored in the gallery for many years was cleared out. The space was then fitted up with book cases, table, and chairs and the medical books moved from the main library. The result is a very attractive room removed from the noise

of the delivery desk and the reading room and well lighted both by day and night. So far it has been more used by nurses than by doctors, but as it becomes better known and the number of up-to-date medical books purchased from the Elliot fund increases, we trust that it will become very useful to both doctors and nurses.

#### PUBLIC DOCUMENTS RETURNED TO WASHINGTON.

Among the old books which had been stored in the gallery were many duplicate public documents. These and more of the same sort which were stored in the basement we wished to get rid of as they were of no use to us and occupied space needed for other things. About three years ago we wrote to the government for franks to enable us to return such volumes to them and were informed that the department of public documents lacked storage room for more books so they would be unable to take them then. We now tried again and were successful in securing franks. Twenty-nine mail sacks were filled with these duplicate documents and returned to Washington. While packing those that were in the basement we found, greatly to our surprise, that some of the volumes were full of holes. We immediately thought of bookworms, for we had seen in other libraries volumes with similar holes which were said to be the work of bookworms. In the summer of 1905 when we found that we could not return our duplicates to Washington, we piled some of them compactly together on top of a packing case and had not disturbed them. On moving these volumes we found them alive with tiny white animals which scurried away as fast as possible when exposed to the light.

#### WHITE ANT PEST.

Having heard that the sight of a bookworm is an extreme rarity we made haste to capture a few and put them in a bottle. We then called upon our entomological authority, Mr. E. J. Burnham, of *The Union*, who at once pronounced them white ants or termites. This verdict was wholly unlooked for as we supposed the depredations of this pest were confined to warm climates, and indeed, according to government reports, they have never before been known to do damage so far north. On further examination we found that the termites had eaten through the floor, through the packing case and its contents, and so into the books which were piled on top, going through them from cover to cover, apparently eating leather, cardboard, and paper with equal satisfaction. Even the fact that they were "dry public documents" did not act as a deterrent. Some of the volumes were ruined, others not badly damaged. Inasmuch as the fact has been emphasized of late that these publications are the property of the government and not to be disposed of without its permission, the authorities were notified of the condition of the books and asked if

they still desired them. It was found that they preferred to waive their claim in this case rather than to run the risk of getting the pest. Further examination revealed the fact that the ants had gone into other packing cases containing newspapers, pamphlets, and old catalogs—all duplicates. Some of these things were demolished beyond recognition.

After some consultation it was decided to fumigate the document room where the trouble had been found, with formaldehyde. This was done, a large quantity being used, and the room remained closed twenty-four hours. Upon opening it and resuming the work of examination it was found that in the books and between the boards of the double floor the ants were as lively as ever. It was then decided to take out the wood floor and the sheathing and leave no wood but the document and newspaper cases. This necessitated the moving of all our newspaper files and public documents and the tearing down of the cases, for they are not of the movable kind. The sheathing on the walls was much eaten and some parts of the floor, but so far as we could discover they had not touched the cases and no books of value to us were harmed.

A cement floor was laid, the walls cleaned and whitewashed, and the book and newspaper cases were all placed upon bricks with the hope that this might prevent the termites from getting into the cases from the ground. It is the nature of this insect to work entirely in the dark, not coming to the surface. This characteristic makes them extremely difficult to fight, for they can completely honeycomb a timber or bookcase without the least evidence of their presence being visible. We had occasion to find this out in more than one instance. The main part of the building is supported by oak posts and it was found that several of these had been attacked. A section of one which was taken out was cut two and a half feet from the floor. The base of this was badly honeycombed so that it had allowed the building to settle and it was found that the ants had gone even higher than the two and a half feet. The lower portions of the studs in the partition wall were so eaten that all had to be cut off a foot or so from the ground.

It was the last of March when the presence of the termites was discovered and although work was begun at once it was the last of August before the document room was again in order. During three or four months of this time the thousands of documents and newspapers were stored in one huge pile in the cellar and were not available for use. Inconvenient though this was it served one purpose in that it made us realize how much the files of papers were used and that even the public documents were at times very much wanted. All these months of work were spent on the document room alone. The woodwork in the rest of the basement is badly infested and should all be torn out.

One day in the fall we heard a cracking of timbers followed by a great rumbling and rush of coal. One of the uprights of the coal bin had been so eaten that it had given way and the bin being full to the ceiling, poured its coal out into the cellar in a small avalanche. Whether the depredations of this pest extend beyond the basement remains yet to be ascertained. Inasmuch as the coal bins are eaten clear to the ceiling there would seem to be some likelihood of the ants being in the beams of the main floor. Certainly they are a great source of danger to the building and emphasize our need of a modern structure in which wood shall be eliminated as far as possible. It seems a great pity to have to spend money in repairing this old building when we so sorely need a new one.

Having found the damage in the basement so extensive we feared lest the pest should be upstairs in the main library also. We therefore engaged an additional worker and had every book taken from the shelves, cleaned, and examined, and the shelves examined, but no signs of its work were found.

After the presence of the termites in the library became known it was found that they were in various other buildings in the city. This made it seem desirable that people should be better informed concerning this troublesome insect, that they might be able to recognize it if they found its work in their homes or places of business. With this thought in mind a showcase was borrowed and an exhibit made of some of the books, pamphlets, and timbers eaten by the white ants. In addition to this we sent to the government for copies of Circular No. 50, second series, of the bureau of entomology. This circular gives much valuable and interesting information about the white ant, which is really not an ant at all, but belongs to the order Isoptera and is known to the entomologist as *termes flavipes*. These circulars were given to those interested that they might have the best information on the subject. In addition a list of magazine and other articles on the white ant was posted on the bulletin board that those who wished to read further might do so.

#### STAFF.

Again we have labored under the disadvantages of a changing personnel. With the exception of the classifier, the cataloger, and the head assistant not a person who was with us at the beginning of 1907 was with us at the end of the year. And with one exception (that of a high school boy who comes in afternoons), the same is true of this year. Much time which was needed for forwarding the work was, of necessity, spent in teaching the newcomers. This custom of breaking in new workers each year is extremely detrimental to the efficiency of the service and far from economical. What we need is a corps of trained assistants who will stay with us year after year. It would cost a trifle more in salaries probably, but



would be more than offset by the quantity and quality of the service rendered.

There has been an unusual amount of illness among the staff this year and this in addition to the great increase in circulation has made it impossible to keep up with the work. For several years there has been a little more than could be done comfortably, and with a gain of thirty-six per cent in the circulation during the last two years, the need for an increase in the number of workers has been felt very keenly. Not only has the circulation increased but other branches of the work have grown also. And in addition to all this natural growth came the arduous task of moving the thousands of public documents and newspapers which was made necessary by the white ant trouble.

Much to our regret various lines of work which would have added to the efficiency and usefulness of the library have had to be omitted, while other parts of the work have dragged very much behind. It is sincerely hoped that these conditions will be improved during the coming year by the addition of one or two assistants.

#### READING ROOM AND CHILDREN'S ROOM.

The reading room has never been so much used as during this year. The tables are often crowded. The magazines certainly have proved a great attraction—sometimes a little too great, for quite a number of them have disappeared from the racks never to return. This trouble would be greatly lessened, we feel confident, by having an assistant in charge of the reading room. An assistant is needed there for very many reasons. Chief among these is to keep the children as quiet as possible that the grown people may not be disturbed in their reading. Hardly second to this is the need of teaching the children how to handle books properly and not to handle them at all with dirty hands. This needs "line upon line and precept upon precept" and can only be accomplished by someone constantly in attendance. The children need help and direction in their reading. This is all the work of the children's room and could be carried on much more advantageously in a room set apart for this purpose, but until we have such it ought to be done where the children are and they certainly are in the reading room. They come in such numbers at times that they practically turn the room into a children's room by the right of possession and the adults are obliged to get along with what is left. In many libraries in places much smaller than Manchester one assistant devotes her time to the children. We are losing a great opportunity in not making the most of these chances to teach the children the love of books and to give them a taste for good literature. As one has said, "A child's mentality is as 'wax to receive and steel to hold,' and the good impressions received during its early years are not lost when it goes out into the world, the re-

sults being an appreciation of good books and a better understanding of right thinking and right living."

The suggestion of last year relative to an addition on the north side of the building is still pertinent. It would cost but a small amount, would provide a suitable place for the children where they could be given the attention they need, and would leave the present reading room for the use of adults, which is a change very much to be desired. It would also add greatly to the usefulness of the juvenile books by bringing them together, thus making them much more accessible. At present they are shelved with the adult literature all through the library. If one wishes a particular book it is easy enough to find it, but if one cares to see what juvenile books we have, as is often the case when teachers come to select books for their schools, it is extremely difficult to show them, in fact it is impossible, for to do so would mean to examine the books of the library from one end to the other. Another advantage would accrue in taking out the juvenile works from the main library; it would leave room for the new books which are constantly being added. The shelves are getting full and it is a question where, in some sections of the library, the new accessions are to be put. For all these reasons, and others, this addition to the building is very much to be desired and the need for it is a present need.

#### EXHIBITIONS.

The exhibitions which have caused much favorable comment for several years past have had to be somewhat neglected this year. It has been impossible with the pressure of work and the small force of workers to give the time necessary for their arrangement, consequently we have had only three, but though the number was so small each was unique in its way. The first was a collection of fifty water-color paintings of wild flowers made and loaned to us by Miss Mary Llewelyn Foster. The second was a collection of over two hundred book plates, personal and institutional, loaned to us by the Newark (N. J.) Public Library and Miss Florence T. Blunt of Haverhill, Mass. These were exhibited together with our newly-acquired plate and gave people an excellent opportunity to see what other libraries have and to compare ours with theirs. The third exhibit was that of the work done by white ants in our basement, which has already been referred to above.

#### BOOKS IN FOREIGN LANGUAGES.

Manchester has a large foreign-speaking population. These people, as a whole, are not of the class who are likely to buy books for themselves, but if reading is a good thing it is good for them as well as for others. It is not to be expected that after a hard day's work



these people will sit down to the study of English. If they read at all it must be something that will be a rest and recreation. Other cities such as Lowell, Lawrence, Fitchburg, New Bedford, Worcester, and Newark, having a similar class of residents, have tried putting books in foreign languages into their libraries and find that they are used. What few foreign books our library owns have been very thoroughly read and it is a pleasure to record the purchase this year of a small lot of French books. These volumes arrived so late in the year that they have not yet been put into circulation, but we feel confident that they will be welcomed and read. We hope from time to time to add to this collection and to get books in some of the other languages which we feel sure would be used.

#### DISCARDED BOOKS.

Formerly the discarded books were filed away in the document room and kept; for the last few years they have been sold for waste paper. This year, at the request of the jailor, such as seemed suitable were sent to the jail and we hear that they have been eagerly read. This seems both to them and to us a very satisfactory way of disposing of the books. We have sent them this year 171 volumes and various gift magazines for which we had no use.

#### BOOKS BURNED BY BOARD OF HEALTH.

Each year we lose a few books on account of exposure to contagious diseases; usually a half a dozen or less of the more inexpensive kind. This year on account of the prolonged epidemic of diphtheria, and numerous cases of scarlet fever, our loss has been unusually heavy. The Board of Health has found it necessary to burn twenty-one volumes, and some of these have not been the customary novel or juvenile work but books such as Chambers's journal, Baedeker, the Independent, and other periodicals. While we greatly regret the loss of such books we feel much indebted to the Board of Health for its vigilance in thus protecting the patrons of the library.

#### INVENTORY.

The inventory this year showed ninety books unaccounted for: forty-four of these were juvenile, and forty-six were adult works. Four books missing in previous years were found. This is another direction in which an assistant in the reading room would be helpful. Children, especially foreign-speaking children, do not always understand that something is required before books may be taken home. An instance came to our notice this year, when a small child took a book without having it charged. Presumably the child saw others walking out with books and thought he might do the same. It needs someone constantly on hand to explain to such and to deter others who may do the same thing with less innocent motives.

## SUNDAY USE.

The use of the reading room on Sundays is still on the increase, but the attendance is very much affected by the weather. If it is very cold or stormy the room is apt to be crowded, but if it is mild or there is good skating or coasting the attendance is usually light.

About 69 per cent of those who have frequented the library on Sunday this year were children, and 27 per cent were men.

## ACKNOWLEDGMENTS.

Grateful acknowledgments are hereby made to all who have donated books, papers, magazines, etc.; to the newspapers for their kindness in printing our lists and notices; to the members of the staff who have labored diligently under the burden of increased work; and to the Board of Trustees, whose kindly coöperation has made possible the various improvements of the year.

Respectfully submitted,

F. MABEL WINCHELL,  
*Librarian.*

## APPENDIX I.

## Accessions.

Increase by purchase .....	1,299
Increase by gift .....	274
Increase by binding periodicals .....	204
Increase by books deposited.....	3
Total accessions for the year .....	1,780
Number of volumes in library as last reported.....	57,232
Whole number of volumes.....	59,012
Number of volumes purchased from the Dean fund.....	163
Number of volumes purchased from the Eaton fund....	47
Number of volumes purchased from the Elliot fund....	16
Worn out volumes withdrawn from circulation.....	216
Number of volumes replaced .....	268
Number of volumes lost or injured and paid for.....	41
Number of volumes lost and not yet paid for.....	4
Number of volumes burned on account of contagious diseases .....	21
Number of magazines subscribed for.....	146
Number of magazines given.....	46
Number of newspapers subscribed for.....	6
Number of newspapers given.....	7
Total number of periodicals received.....	205

## APPENDIX II.

## Circulation and Registration.

Number of days library was open..... 306

## RECORD, BY CLASSES, OF VOLUMES ISSUED.

	No. vols.	Per cent.
General works .....	5,228	5.9
Philosophy and religion.....	1,226	1.4
Biography .....	1,843	2.1
History .....	2,746	3.1
Geography and travels .....	2,384	2.7
Social sciences .....	687	0.8
Science and useful arts .....	4,175	4.7
Fine arts .....	2,205	2.5
Literature .....	4,443	5.0
Fiction .....	63,089	71.3
Pictures .....	439	0.5
Total issue for home use .....	88,465	

## CIRCULATION.

Average daily use (home) .....	289
Largest number any one day (January 25).....	602
Smallest number any one day (May 26).....	162
Largest number any one month (January).....	8,455
Smallest number any one month (July).....	6,360
Number of volumes delivered in reading room.....	17,027
Average daily use .....	55
Total circulation for 1908.....	105,492
Number of volumes issued on school pockets.....	1,435
Number of borrowers to whom vacation pockets were issued .....	86

## REGISTRATION.

Number registered in 1908.....	2,639
Number of borrowers on deposit.....	12

## APPENDIX III.

## Miscellaneous Statistics.

Number of books classified.....	1,356
Number of books cataloged.....	1,317

Number of volumes bound and repaired at bindery.....	1,416
Number of volumes repaired at library.....	3,421
Number of volumes covered at library.....	998
Mail notices for overdue books.....	1,065
Reserve notices paid for.....	1,538

### Sunday Statistics.

	Men.	Women.	Children.	Total.
Attendance .....	2,571	374	6,425	9,370
Average per Sunday .....	49	7	124	180

### CIRCULATION.

General works .....	5,073
Philosophy and religion .....	87
Biography .....	137
History .....	731
Geography and travels .....	215
Social sciences .....	103
Science and useful arts .....	441
Fine arts .....	248
Literature .....	3,144
Fiction .....	1,108
Total .....	11,287

### APPENDIX IV.

#### Receipts from Fines, Etc , from December 1, 1907, to November 30, 1908.

Received from fines .....	\$337.72	
catalogs sold .....	1.15	
books lost or injured and paid for .....	34.66	
reserve notices .....	15.38	
miscellaneous sales .....	32.35	
income on bank deposit.....	4.77	
		\$426.03
Paid for expressage and sundries.....	\$105.04	
books, magazines, and papers ....	28.18	
		\$133.22
Balance on hand .....		\$292.81

## APPENDIX V.

## Donations to Library, 1908.

	Vols.	Pams.	Mags.
Abbott, Maude C., 2 picture scrapbooks....			7
Adriance Memorial Library, Poughkeepsie, N. Y.....		2	
Allison, M. A.....			32
American Society for Extension of Univer- sity Teaching .....		4	
Amherst College .....		1	
Ancient and Honorable Artillery Company of Massachusetts .....		2	
Armstrong, D. W., Jr.....		1	
Association for International Conciliation..		7	
Atlantic City, N. J.—Free Public Library....		1	
Badische Company .....	1		
Baltimore & Ohio Railroad.—Passenger De- partment .....		7	
Barker, E. F.....		3	
Barr, M. E.....			9
Belmont, Mass.—Public Library.....		1	
Benneville, J. S. de.....	2		
Berlin, N. H.—Public Library.....		1	
Bigelow Free Public Library, Clinton, Mass.,		1	
Birmingham, Eng.—Free Libraries Commit- tee .....		1	
Boston, Mass.—Public Library .....		2	
Boston, Mass.—Schoolhouse Department....		1	
Bradley, C. ....	1		
Brookline, Mass.—Public Library.....		2	
Brown University .....		2	
Bureau of Railway News .....	1	1	
Burnham, Hon. H. E.....	18	6	
Cambridge, Mass.—Public Library .....		1	
Carnegie Institution of Washington.....		3	
Carvelle, Dr. H. D. W.....	3		117
Chamberlin, E. B.....	1		
Chicago, Ill.....	1	1	
Children's Aid Society, N. Y.....		1	
Clark College .....		2	
Cleworth, Mrs. J., 23 pictures.			
College of Dental and Oral Surgery, N. Y..		1	
Connecticut.—State Library .....		2	
Cornell University .....	1	1	

	Vols.	Pams.	Mags.
Cornish, B.....			137
Cross, D.....			39
Cutler, W. F.....			1
Dartmouth College .....	3	1	4
Davis, Dr. G. M.....			71
Dayton, Ohio.—Public Library.....		1	
Depew, C. ....		5	
Detroit, Mich.—Public Library.....		1	
Dover, N. H.—Public Library.....		1	
Dodge, J. E.....	1		
Eames, Mrs. W. M.....			12
Eaton, F. B. estate.....			259
Eclipse Electrotype & Engraving Co.....	1	1	
Elizabeth, N. J.—Public Library.....		1	
Enoch Pratt Free Library, Baltimore, Md...		1	
Evanston, Ill.—Public Library.....		4	
Fairbanks, E. D.....		52	150
Fairmount Park Art Association.....		1	
Fletcher Free Library, Burlington, Vt.....		1	
Forbes Library, Northampton, Mass.....		1	
French, E. F.....			24
French, Mrs. J. E.....			22
French, Mrs. L. M.....			1
Friends' Free Library, Germantown, Pa....		1	
Gaskin, E.....		1	
Grand Rapids, Mich.—Public Library.....		1	
Hall, D.....		1	
Hall, H. J.....			59
Hartford, Conn.—Public Library.....		1	
Harvard University .....	2	2	
Haverhill, Mass.—Public Library .....		1	
Hawaiian Promotion Committee .....		2	
Hebrew Union College .....		1	
Henriksen, G. G.....		1	
Higgins, E. F.....			50
Hillsborough County Commissioner .....		2	
Hodge, Charles R.....			181
Huse, W. H.....	5	48	65
Hutchinson, J. J.....	1		
Indian Rights Association.....		1	
Iowa College .....		2	
Lake Mohonk Conference on International Arbitration .....		1	
Lamb, A. S.....			211
Lamb, F. W.....		1	



# REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 417

	Vols.	Pams.	Mags.
Lawrence, Mass.—Free Public Library.....		2	
Library Company of Philadelphia.....		2	
Lichtenstein, G.....		1	
Livingston, Mrs. F. C.....			52
Los Angeles, Cal.—Chamber of Commerce..	2		
Los Angeles, Cal.—Public Library.....		1	
Lynn, Mass.—Public Library.....		2	
McAleer, G.....	1		
McGraw Publishing Company.....		1	
Mack, I. G.....			61
Malden, Mass.—Public Library .....		1	
Manchester, N. H.—Board of Water Com- missioners .....		1	
Manchester, N. H.—City Engineer.....		1	
Manchester, N. H.—Superintendent of Pub- lic Instruction .....		1	
Manchester Historic Association.....		1	
Massachusetts College of Osteopathy.....		5	
Medford, Mass.—Public Library.....		1	
Melrose, Mass.—Public Library.....		1	
Memorial Hall Library, Andover, Mass.....		1	
Mercantile Library, N. Y. City.....		1	
Merchants' Association of N. Y.....		4	
Mercy Home .....		1	
Milwaukee, Wis.....		1	
Minneapolis, Minn.—Board of Park Com- missioners .....		1	
Minneapolis, Minn.—Public Library .....		1	
Morse Institute, Natick, Mass.....		1	
Mount Holyoke College .....		1	
Murray, T. H.....	1		
National American Woman Suffrage Asso- ciation .....		2	
National Prison Association of the United States .....	13		
New Bedford Textile School .....		1	
New Hampshire.—Insurance Commissioner,	1		
New Hampshire Medical Society.....	1		
New Haven, Conn.—Free Public Library....		1	
New Jersey.—State Library .....	2		
New Orleans, La.—Public Library.....		1	
New York City—Public Library .....		1	
New York State.—State Library .....	3	2	
New York University .....		1	
Newark, N. J.—Free Public Library.....		1	
Newton, Mass.—Free Library.....		1	

	Vols.	Pams.	Mags.
Osaka, Japan.—Library .....		1	
Osterhout Free Library, Wilkes-Barre, Pa..		2	
Ottawa, Ontario .....	1		
Parlin Library, Everett, Mass.....		1	
Paterson, N. J.—Free Public Library.....		1	
Peabody Institute, Baltimore, Md.....		1	
Peaslee, J. B.....	2		
Pennsylvania Railroad Company.....		1	
Peoria, Ill.—Public Library.....		1	
Perkins Institution and Massachusetts School for the Blind .....		2	
Peterborough, N. H.....		1	
Petero, C. H.....			13
Philadelphia, Pa.—City Institute .....		1	
Philadelphia, Pa.—Free Library.....		1	
Phillips Exeter Academy.....		4	
Plumer, Mrs. W. H.....			12
Portland, Me.—Public Library.....		1	
Priest, E. M.....			186
Princeton University .....		2	
Providence, R. I.—Public Library.....		1	
Reed, A. P.....	2	3	
Republican National Committee .....		1	
Robbins Library, Arlington, Mass.....		1	
Rochester, N. H.—Public Library.....		1	
St. Louis, Mo.—Mercantile Library Associa- tion .....		1	
Salem, Mass.—Public Library .....		2	
Savannah, Ga.—Public Library.....		1	
Scranton, Pa.—Public Library.....		1	
Silas Bronson Library, Waterbury, Conn....		1	
Simmons, L. M.....			51
Simplified Spelling Board.....		4	
Smith, M. L.....			90
Society of Colonial Wars .....	1		
Somerville, Mass.—Public Library.....		2	
Sowdon, S. E.....	6		1
Spaulding, Mrs. F. L. V.....			104
Spofford, C. B.....		1	
Spofford, M.....	2		
Springfield, Mass.—City Library Association,		1	
Straw, G.....			12
Sydney, Australia.—Intelligence Department,		3	
Syracuse, N. Y.—Public Library.....		1	
Thompson, G.....			43
Todd, Mrs. A. J.....			6

# REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 419

	Vols.	Pams.	Mags.
Tolman, M. M., 60 pictures.....	8	6	534
United States.—Bureau of Education.....	2	6	
United States.—Bureau of Labor.....		6	
United States.—Civil Service Commission...	1		
United States.—Department of Agriculture,		6	
United States.—Interior Department, 5 at-			
lases .....	2	8	
United States.—International Bureau of			
American Republics .....		18	
United States.—Interstate Commerce Com-			
mission .....	8		
United States.—Library of Congress.....	2		
United States.—Public Printer .....		1	
United States.—Smithsonian Institution....		13	
United States.—Superintendent of Docu-			
ments, 7 atlases.....	27	145	
United States.—War Department .....		1	
United States Mushroom & Spawn Com-			
pany .....		1	
University of Illinois .....		1	
University of New York .....		1	
University of Pennsylvania .....	1		
University of Tennessee .....		3	
University of Vermont .....		1	
Varick, Mrs. T. R.....			36
Vivisection Reform Society.....	1	2	
Webber, L. ....		1	
Westborough, Mass.—Town Library .....		1	
Wilmington, Del.—Institute Free Library...		1	
Winch, G.....		1	
Winchell, J. R.....	1		
Winchester, Mass.—Public Library.....		1	
Woburn, Mass.—Public Library.....		1	
Woodbury, F. D.....		6	
Worcester Academy .....		1	
Worcester, Mass.—Free Public Library.....		1	
Wright, E. ....	1		
Young Men's Christian Association, Man-			
chester, N. H.....			1,118
Youth's Companion, 1 calendar.			
	<hr/> 134	<hr/> 517	<hr/> 3,770

**Library Bulletins Received.**

Boston Public Library.  
Brookline Public Library.  
Dover Public Library.  
Evanston Public Library.  
Hartford Public Library.  
Haverhill Public Library.  
Helena Public Library.  
Holyoke Public Library.—Record.  
Jersey City Free Public Library.—Library record.  
Kellogg-Hubbard Library.  
Laconia Public Library.  
Lynn Public Library.  
Medford Public Library.  
Mercantile Library, N. Y.  
Milwaukee Public Library.—Quarterly index.  
Nashua Public Library.  
New York Public Library.  
Newark Free Public Library.—Library news.  
Providence Public Library.  
St. Louis Public Library.  
Salem Public Library.  
Scranton Public Library.  
Seattle Public Library.  
Springfield City Library.  
Wisconsin Free Library Commission.

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**APPENDIX VI.****List of Periodicals for 1909.**

A. L. A. book list.  
Alpine journal.  
American boy.  
American engineer and railroad journal.  
American historical review.  
American journal of science.  
American journal of sociology.  
American Library Association. Bulletin.  
American magazine.  
American naturalist.  
Among the deep sea fishers.—Gift.  
Ancient Free and Accepted Masons of Mass. Proceedings.—Gift.  
Annals of American Academy of Political and Social Science.

Annals of Iowa.—Gift.  
 Appleton's magazine.  
 Architects' and builders' magazine.  
 Arena.  
 Argosy.  
 Art journal.  
 Association review.—Gift.  
 Athenæum.  
 Atlantic monthly.  
 Berea quarterly.—Gift.  
 Biblical world.  
 Bird lore.  
 Blackwood's Edinburgh magazine.  
 Book review digest.  
 Bookman.  
 Boston Cooking School magazine.  
 Boston Society of Natural History. Proceedings.  
 Brooklyn Institute of Arts and Sciences. Museum news.—Gift.  
 Bulletin of bibliography.  
 Camera craft.  
 Canadian magazine.  
 Case and comment.—Gift.  
 Cassier's magazine.  
 Century.—2 copies.  
 Chambers's journal.  
 Charities and the commons.  
 Chautauquan.  
 Chicago banker.—Gift.  
 Children's Magazine.  
 Children's star magazine.—Gift.  
 Christian cynosure.—Gift.  
 Christian science journal.—Gift.  
 Christian science sentinel.—Gift.  
 Collier's weekly.  
 Concrete.—Gift.  
 Congregationalist.—Gift.  
 Connoisseur.  
 Contemporary review.  
 Cornhill magazine.  
 Cosmopolitan.—2 copies.  
 Country life in America.  
 Craftsman.  
 Cumulative book index.  
 Current literature.  
 Dartmouth.—Gift.  
 Dartmouth alumni magazine.—Gift.

Defender.—Gift.  
Delineator.—2 copies; 1 copy a gift.  
Dial.  
Edinburgh review.  
Education.  
Educational review.  
Electrical age.—Gift.  
Electrical world.  
Electrician and mechanic.  
Elementary school teacher.  
Engineering magazine.  
Engineering news.  
Envelope series.—Gift.  
Etude.—2 copies.  
Everybody's magazine.—2 copies; 1 copy a gift.  
Fortnightly review.  
Forum.  
Good housekeeping.—2 copies.—Gift.  
Granite monthly.  
Granite state magazine.  
Gregg writer.—Gift.  
Grinnell review.—Gift.  
Harper's bazar.  
Harper's monthly.—2 copies.  
Harper's weekly.  
Herald of the cross.—Gift.  
Holy cross purple.—Gift.  
Home needlework magazine.  
Horseless age.  
House beautiful.  
Independent.—Gift.  
Index medicus.  
Indian's friend.—Gift.  
International studio.  
Journal of American folk-lore.  
Journal of American history.  
Journal of political economy.  
Journal of the Franklin Institute.  
Ladies' home journal.  
Ladies' review.—Gift.  
Ladies' world.—Gift.  
Lancet.  
Library journal.  
Library work.  
Life.  
Life and light for woman.—Gift.



Lippincott's magazine.  
 Literary digest.  
 Little folks.  
 Living age.  
 London quarterly review.  
 McClure's magazine.—2 copies.  
 Magnificat.—2 copies.—Gift.  
 Manual training magazine.  
 Massachusetts journal of osteopathy.—Gift.  
 Masters in art.  
 Metal industry.—Gift.  
 Metropolitan.  
 Mind.  
 Missionary herald.—Gift.  
 Missionary review.  
 Modern sanitation.—Gift.  
 Motor world.  
 Mt. St. Mary's record.—Gift.  
 Munsey magazine.—2 copies.  
 Musician.—2 copies.  
 Nation.  
 National geographic magazine.  
 National magazine.  
 Nature.  
 New England historical and genealogical register.  
 New England magazine.  
 New England Shoe and Leather Association gazette.—Gift.  
 New Hampshire College of Agriculture. Bulletin.—Gift.  
 New Hampshire genealogical record.  
 Nineteenth century and after.  
 North American review.  
 Notes and queries.  
 Official gazette of the United States Patent Office.—Gift.  
 Oracle.—Gift.  
 Out west.  
 Outing.  
 Outlook.  
 Overland monthly.  
 Pearson's magazine.  
 People.—Gift.  
 Photo-era.  
 Pitman's journal.—2 copies.—Gift.  
 Popular science monthly.  
 Power and the engineer.  
 Printing art.  
 Protectionist.—Gift.

Public libraries.  
Publishers' weekly.  
Puck.  
Punch.  
Putnam's magazine.  
Quarterly review.  
Railroad age gazette.  
Readers' guide to periodical literature.  
Records of the past.  
Recreation.  
Review of reviews. American edition.—2 copies.  
Revue des deux mondes.  
Rosicrucian brotherhood.  
St. Nicholas.  
Saturday evening post.  
Saturday review.  
School review.  
Science.  
Scientific American.  
Scientific American supplement.  
Scribner's magazine.—2 copies.  
Speaker.  
Strand magazine.  
Suburban life.  
Sunday school times.  
Sunset.  
Textile colorist.  
Textile world record.  
United States public documents catalogue.—Gift.  
Universalist leader.—Gift.  
Westminster review.  
Whittlings.—Gift.  
Woman's home companion.  
Worcester magazine.—Gift.  
World to-day.  
World's work.—2 copies.  
Youth's companion.—2 copies.

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### Newspapers.

Advertiser.—Gift.  
Boston morning herald.  
Boston Sunday herald.  
Boston transcript.  
Derry record.—Gift.

Emerald.—Gift.

Manchester record.—Gift.

Manchester union.—Gift.

Mirror and American.

Mirror and farmer.—Gift.

New Hampshire farmer.—Gift.

New York morning sun.

New York times. Saturday issue.

Plymouth record.—Gift.

Reveil.—Gift.

## TREASURER'S REPORT.

Account of Edwin F. Jones, Treasurer of the Trustees of the City  
Library.

1908.		Dr.
Jan.	1. To balance of appropriation for books.....	\$505.82
May	1.     appropriation for books for 1908.....	1,000.00
Jan.	1. To Dean fund and accumula- tions .....	\$13,463.78
Dec.	1.     income 1908 on same.....	550.86
		14,014.64
Jan.	1. To Mary E. Elliot fund and ac- cumulations .....	\$3,998.66
Dec.	1.     income 1908 on same.....	119.67
		4,118.33
Jan.	1. To Eliza A. Eaton fund and ac- cumulations .....	\$4,134.69
Dec.	1.     income 1908 on same .....	119.58
		4,254.27
Dec.	30.     received of F. Mabel Winchell, Librarian, fines, catalogues, books lost and in- jured, requests and miscellaneous sales,	292.81
		\$24,185.87
		CR.

By paid for books:

1908.		
Feb.	4. Temple & Farrington Co. (Dean fund) .....	\$43.78
	Goodspeed's Book Shop (Eaton fund) .....	27.00
	Old Corner Bookstore (Elliot fund) .....	52.04
	W. M. Olin, secretary.....	4.00
	T. P. W. Rogers (Dean fund)....	9.15
March	3. W. P. Goodman.....	57.13
	W. P. Goodman (Eaton fund)....	8.25
	Robert W. Lull.....	1.00
	John B. Clarke Co.....	4.00

# REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 427

March 20.	T. P. W. Rogers.....	\$24.00
	T. P. W. Rogers (Dean fund)....	1.00
April 29.	Temple & Farrington Co.....	159.51
	Temple & Farrington Co. (Dean fund) .....	23.91
	W. B. Clarke Co.....	5.40
	H. R. Hunting Co.....	32.50
	W. P. Goodman .....	24.75
	Charles Scribner's Sons.....	2.50
	T. P. W. Rogers .....	16.50
	H. R. Hunting Co. (Dean fund)..	32.50
May 21.	T. P. W. Rogers .....	32.50
	The Dartmouth .....	2.50
July 2.	Boston Society of Natural History .....	4.00
	W. P. Goodman .....	175.54
	N. E. Hist. Genealog. Society....	5.00
	Temple & Farrington Co.....	18.27
	Temple & Farrington Co. (Dean fund) .....	6.25
	R. R. Bowker .....	7.50
	R. R. Bowker .....	3.50
	T. P. W. Rogers (Eaton fund)...	11.00
	T. P. W. Rogers (Dean fund)....	7.50
	Charles H. Pope (Eaton fund)..	4.00
21.	Dept. commerce and labor.....	5.00
	Charles N. Sinnett (Eaton fund),	2.50
	W. P. Goodman.....	42.48
	H. R. Hunting Co.....	4.00
Oct. 9.	Temple & Farrington Co. (Eaton fund) .....	60.56
	W. P. Goodman (Dean fund)....	5.70
	W. P. Goodman .....	121.16
Nov. 21.	T. P. W. Rogers.....	6.80
	W. B. Clarke Co.....	3.60
	Noah F. Morrison .....	5.82
	Schoenhof Book Co.....	8.05
	W. P. Goodman (Dean fund)....	3.75
	W. P. Goodman.....	205.61
	Temple & Farrington Co. (Eaton fund) .....	25.73
	Temple & Farrington Co.....	103.71
	University of Chicago Press.....	3.25
	Macmillan Co. ....	34.00
	W. A. Keating (Dean fund).....	6.00
	W. A. Keating .....	35.90

Nov.	21.	N. E. Hist. Genealog. Society.....	\$10.00	
		N. J. Bartlett & Co.....	.83	
		Boston Book Co.....	2.94	
Dec.	3.	Sampson & Murdock Co.....	3.00	
	24.	Temple & Farrington Co. (Dean fund) .....	1.80	
		W. P. Goodman (Dean fund)....	246.88	
		H. Goldberger (Elliot fund)....	15.40	
			<hr/>	\$1,242.03
				<hr/>
				\$1,770.95
Dec.	31.	By Dean fund and accumulations:		
		deposit book 4078, Guaranty Savings Bank .....	\$105.00	
		deposit book 4557, Guaranty Savings Bank .....	16.42	
		deposit book 94654, Amoskeag Savings Bank .....	2,000.00	
		deposit book 39195, Merrimack River Savings Bank..	1,898.79	
		deposit book 6421, Mechanics Savings Bank .....	2,754.39	
		deposit book 16445, Manchester Savings Bank .....	3,819.31	
		deposit book 75958, Manchester Savings Bank.....	3,009.51	
			<hr/>	13,603.42
Dec.	31.	By Eliza A. Eaton fund and accumulations:		
		deposit book 4327, Guaranty Savings Bank .....	\$150.00	
		deposit book 4328, Guaranty Savings Bank .....	35.79	
		deposit book 106, Hillsborough County Savings Bank.....	2,642.78	
		deposit book 39196, Merrimack River Savings Bank..	1,286.66	
			<hr/>	4,115.23
Dec.	31.	By Mary E. Elliot fund and accumulations:		
		deposit book 2009, Guaranty Savings Bank .....	\$100.00	
		deposit book 2010, Guaranty Savings Bank .....	78.94	
		deposit book 104, Hillsborough County Savings Bank.....	1,876.99	
		deposit book 6423, Mechanics Savings Bank .....	1,994.96	
			<hr/>	4,050.89
Dec.	31.	By balance of appropriation for books deposited in Merchants National Bank...		645.38
				<hr/>
				\$24,185.87



I have examined the above account of Edwin F. Jones, treasurer of the trustees of the city library, and find the same correctly cast and properly vouched.

JAMES E. DODGE,  
*City Auditor.*

We have examined the above account of Edwin F. Jones, treasurer of the trustees of the city library, and find the same correctly cast and properly vouched.

EUGENE E. REED, *Mayor*,  
WALTER M. PARKER,  
*Committee on Finance of Trustees of the City Library.*



# REPORT OF OVERSEERS OF THE POOR.



## REPORT OF THE OVERSEERS OF THE POOR.

*To His Honor the Mayor and Gentlemen of the City Councils:*

In compliance with the ordinance of said city councils the overseers of the poor herewith present their annual report:

The present year was an unusually bad year for the board. The number of applications for help was greatly increased over the previous year owing to the depression in business and the curtailment of work in the mills and in other branches of business. The amount expended during the year was as follows:

The different wards gave orders for the following amounts:

Ward 1 .....	\$1,258.85
Ward 2 .....	988.43
Ward 3 .....	1,592.07
Ward 4 .....	503.67
Ward 5 .....	4,189.60
Ward 6 .....	996.11
Ward 7 .....	490.83
Ward 8 .....	1,823.32
Ward 9 .....	4,072.56
Ward 10 .....	2,278.79
	<hr/>
	\$18,194.23
Appropriation .....	13,000.00
	<hr/>
Overdrawn .....	\$5,194.23

The following amounts were paid out to the charitable institutions:

County farm .....	\$626.47
St. Joseph's orphanage .....	578.00
St. Patrick's Orphanage .....	257.50
Infants' Asylum .....	230.00
Old Ladies' Home .....	352.25
Notre Dame Orphanage .....	184.50
St. Peter's Orphanage .....	155.00
Notre Dame Hospital .....	54.25
Elliot Hospital .....	43.00
Medicines furnished .....	352.25
Funerals furnished .....	174.00
Clothing furnished .....	165.43
Rents furnished .....	168.00

Shoes furnished .....	\$375.50
Coal furnished .....	497.26
Wood furnished .....	967.28
Board and care in families .....	1,888.56
	<hr/>
	\$6,898.00

More than half of our appropriation was expended on the foregoing items.

Respectfully submitted,

THOMAS C. STEWART,

*Clerk.*

The number of indigent soldiers assisted during the year was four.	
The amount expended was.....	\$509.05
Appropriation .....	300.00
	<hr/>
Overdrawn .....	\$209.05

Respectfully submitted,

THOMAS C. STEWART,

*Clerk.*



REPORT

OF THE

TRUSTEES OF THE SINKING FUND.



# REPORT OF THE TRUSTEES OF THE SINKING FUND.

*To the City Councils of the City of Manchester:*

GENTLEMEN:—As required by chapter 37, section 2 of the city ordinances of Manchester, the trustees of the sinking fund of the city of Manchester herewith report the condition of the several funds January 1, 1909, with receipts and payments for the year ending December 31, 1908.

WILLIAM McELROY,  
CHARLES H. MANNING,  
FRED L. ALLEN,  
*Trustees of the Sinking Fund.*

## IMPROVEMENT LOAN.

### Dr.

Total amount of fund January 1, 1908, for the payment of improvement bonds .....		\$300,818.21
Appropriation for 1908.....	\$20,000.00	
Income from interest on Manchester bonds..	9,200.00	
Income from interest on Boston bonds....	875.00	
Income from bank deposits .....	911.77	
		<u>30,986.77</u>
		<u>\$331,804.98</u>

### Cr.

Accrued interest paid on Manchester bonds bought .....	\$129.38	
Premium paid on Manchester bonds bought,	45.00	
		<u>\$174.38</u>
Bonds on hand December 31, 1908.....	\$262,200.00	
Cash on hand December 31, 1908.....	69,430.60	
		<u>331,630.60</u>
		<u>\$331,804.98</u>

## ANNUAL OFFICIAL REPORTS.

## WATER LOAN.

## DR.

Total amount of fund January 1, 1908, for the payment of water bonds .....		\$169,522.34
Appropriation for 1908 .....	\$5,000.00	
Appropriation hydrant service, 1908.....	20,925.00	
Income from interest on Manchester bonds,	6,445.00	
Income from bank deposits.....	327.46	
	<hr/>	32,697.46
		<hr/>
		<u>\$202,219.80</u>

## CR.

Bonds on hand December 31, 1908.....	\$164,000.00	
Cash on hand December 31, 1908.....	38,219.80	
	<hr/>	\$202,219.80
		<hr/>
		<u>\$202,219.80</u>

## CITY FUNDING LOAN.

## DR.

Amount of fund January 1, 1908, for the payment of city funding bonds .....		\$43,525.82
Appropriation for 1908 .....	\$5,000.00	
Income from interest on Manchester bonds,	1,392.50	
Income from bank deposits.....	137.88	
	<hr/>	6,530.38
		<hr/>
		<u>\$50,056.20</u>

## CR.

Premium paid on Manchester bonds bought,	\$27.50	
Accrued interest paid on Manchester bonds bought .....	19.38	
	<hr/>	\$46.88
Bonds on hand December 31, 1908.....	\$38,000.00	
Cash on hand December 31, 1908.....	12,009.32	
	<hr/>	50,009.32
		<hr/>
		<u>\$50,056.20</u>

# REPORT OF THE TRUSTEES OF THE SINKING FUND. 439

## SCHOOL LOAN.

### DR.

Total amount of fund January 1, 1908, for the payment of school bonds .....		\$25,368.47
Appropriation for 1908.....	\$2,000.00	
Income from interest on Manchester bonds,	910.00	
Income from bank deposits.....	81.95	
		<u>2,991.95</u>
		<u>\$28,360.42</u>

### CR.

By bonds on hand .....	\$23,000.00	
By cash on hand .....	5,360.42	
		<u>\$28,360.42</u>

## MUNICIPAL LOAN.

For the payment of bonds maturing January 1, 1922.

### DR.

Amount of fund January 1, 1908.....		\$20,829.27
Appropriation, 1908 .....	\$4,000.00	
Income from interest on Manchester bonds,	625.00	
Income from bank deposits .....	119.77	
		<u>4,744.77</u>
		<u>\$25,574.04</u>

### CR.

Bonds on hand .....	\$16,000.00	
Cash on hand .....	9,574.04	
		<u>\$25,574.04</u>

## CITY REFUNDING LOAN.

For the payment of bonds maturing April 1, 1925.

### DR.

Amount of fund January 1, 1908.....		\$5,075.00
Appropriation, 1908 .....	\$2,500.00	
Income from savings bank deposit.....	178.00	
		<u>2,678.00</u>
		<u>\$7,753.00</u>

CR.

Cash on hand .....	\$7,753.00
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## REFUNDING CITY BONDS.

For the payment of bonds maturing April 1, 1927.

DR.

Appropriation, 1908 .....	\$2,500.00
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CR.

Cash on hand .....	\$2,500.00
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Respectfully submitted,

FRED L. ALLEN,  
*Treasurer of Sinking Fund.*

This is to certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipts and expenditures for the year ending December 31, 1908, and find the same correct and properly vouched. I have also examined the securities in which the fund is invested and find as follows:









MUNICIPAL LOAN.

For the payment of municipal bonds maturing July 1, 1922.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.
5	146 to 150 inc.,	\$1,000	City	4%	Apr. 1, 1909	\$5,000.00
8	2 to 7 inc., 25, 27,	500	Bridge	4%	July 1, 1911	4,000.00
4	Nos. 2, 13, 28, 29,	1,000	Bridge	4%	July 1, 1911	4,000.00
3	Nos. 26, 27, 28,	1,000	Refunding	3½%	Apr. 1, 1925	3,000.00
Bonds on hand .....						\$16,000.00
Cash on hand .....						9,574.04
						<hr/> \$25,574.04

CITY REFUNDING LOAN.

For the payment of bonds maturing April 1, 1925.

Cash on hand .....	\$7,753.00
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REFUNDING CITY LOAN.

For the payment of bonds maturing April 1, 1927.

Cash on hand .....	\$2,500.00
Total amount of sinking fund .....	\$648,047.18
<hr/>	

JAMES E. DODGE,  
*City Auditor.*

REPORTS  
OF THE  
TRUSTEES OF CEMETERIES AND  
CEMETERY FUNDS.





## REPORTS OF THE TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

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*To the Board of Mayor and Aldermen and the Trustees of Cemeteries:*

GENTLEMEN:—In behalf of the subtrustees of the Pine Grove cemetery I submit the following report for the year 1908.

The appropriations made by the common council were of the sum of twelve thousand dollars (\$12,000) for the ordinary and general care of the grounds, and of the sum of twenty-five hundred dollars (\$2500) for the continuance of the work on and about the small lake in the northerly portion of the yard. The receipts from the sale of lots and for water and labor on the care of lots and from interments and sundry sources were ninety-seven hundred sixteen dollars and thirteen cents (\$9716.13), which sum was paid into the city treasury, leaving the net cost to the taxpayers of the ordinary maintenance of the cemetery for the year 1908 less than twenty-two hundred and eighty-four dollars (\$2284).

The appropriation for the development of the lake was fully expended, mostly for grading. About a thousand feet of water pipe was laid and nine hydrants placed to accommodate the lawns in the neighborhood of the lake. A cement dam was constructed at the outlet, and two bridges were built to connect with either side of the island. A number of trees and shrubs were set out and the ground prepared for an extensive planting of such in the spring; and nearly one thousand square yards of avenues were macadamized. It is believed that twenty-five hundred dollars (\$2500) more will practically complete the work about the lake; and thus, with the expenditure of ten thousand dollars (\$10,000) during a period of three years, Pine Grove cemetery will have in place of an ill-looking muck hole a beauty spot that will be pleasing to every citizen.

The trustees of the cemetery fund donated the sum of one thousand dollars (\$1,000) for which the subtrustees express their thanks publicly. This donation permitted them to continue the work of the last four or five years, which similar donations have enabled them to do, in the line of building good driveways and improving sections of the grounds where gravel paths separate the lots and where some of the lot owners are unknown or dead with no provision for the care of their lots. Many unsightly places in the grounds have been removed and the general appearance greatly improved by these grants

from the perpetual care fund income, which are in strict accord with the purposes for which that fund was created. In 1908 this money was expended in part in grading one of the older sections of the grounds between Autumn path and Linnet avenue in which are forty-seven lots. These with the adjoining paths and borders were graded and loamed; and also fifteen hundred and ninety-two square yards of macadamized driveways were laid.

During the year Superintendent Erskine carried on the work of maintaining the cemetery, caring for those parts already developed and doing as much as possible in the way of developing new parts.

However, owing to the limitations of the appropriation, some things which ought to have been done had to be postponed. The concrete driveways should have been recovered and the iron fence and the wooden buildings should all have been painted in 1908, but the lack of funds prevented the work.

With the growth of the developed area of the cemetery the ordinary work of caring for it increases, and it is inevitable that the appropriation for that work must be increased. However, it has been the experience that the receipts have kept up a similar growth, and with the increase in appropriation it does not seem to be likely that the net cost will be much greater, for the trustees of the cemetery fund will be able to render greater assistance as their fund and its income grow larger year by year, and every lot now sold pays something into that fund to be used in its care.

In place of twelve thousand dollars (\$12,000) there is needed for 1909 fourteen thousand dollars (\$14,000) at least, as an appropriation for the ordinary maintenance, unless the standard of care is to be lowered.

In 1908 the average number of men employed was twenty-one. The border on the side of the Calef road was extended northerly a distance of one hundred and fifty feet to the proposed new entrance, and two hundred trees and shrubs were planted therein. The erection of the Weston and Corey tombs necessitated considerable unexpected grading. A large addition to Chapel lawn and the new Lakeside lawn under perpetual care were graded and grassed. An addition to the field of Manesquo, fifty feet long, was prepared and loamed, and one hundred feet of the northerly end of the new Birch lawn at the extreme south end of the ground, which is to be under semi-perpetual care, like Hillside lawn, were graded and loamed.

In 1908 there were three hundred and ten interments, making a total of recorded burials up to January 1, 1909, of eighty-four hundred and seventy (\$470). The need of the single grave section, known as Woodside lawn, was made manifest by the sale of eighteen graves and the burial of sixteen bodies there. In the field of Manesquo seventy-eight bodies were buried.

During the year sixty-three lots were sold in the grounds: three on

Chapel, twenty-two on Hillside, eight on Cedar, three on Riverside, twenty-four on Lakeside, and three on Swedish lawns. This makes up the number of thirty hundred and fifty-eight (3058) lots sold up to January 1, 1909. Single graves on Swedish lawn to the number of one hundred and seventy-one, and on Woodside lawn to the number of sixty-three have been sold up to the same date.

There remain plotted and now ready for sale two hundred and twenty-eight lots located as follows: On Chapel lawn forty-four, on Riverside lawn two, on Cedar lawn seven, on Lakeside lawn seventy-one, all under perpetual care; on Hillside lawn under semi-perpetual care, eighty-five, on Acacia lawn four old ordinary lots, and on Swedish lawn fifteen under special conditions. Single graves remain unsold on Swedish and Woodside lawns to the number of four hundred and sixty-five respectively. Birch lawn will probably be divided into lots ready for sale within a few months.

During the year the care of four hundred and seventy ordinary lots were paid for by the owners to the amount of fifteen hundred and eighty-six dollars and fifty cents (\$1586.50). The care of seven hundred and fifteen lots under perpetual care brought in twenty-four hundred and fifteen dollars (\$2415), and two hundred and ninety-six lots under semi-perpetual care contributed three hundred and twenty-four dollars and eighteen cents (\$324.18). This shows that of all the lots sold, fourteen hundred and eighty-one (1,481), or almost one half of all, contributed to the expense of the care, the labor and the water furnished out of the appropriation. And considering that for the last five years very few lots have been sold and that in the future none will be sold except on condition that almost one half the purchase price goes into the cemetery fund, the income to be used in keeping the lot grassed, watered and clipped, it seems likely that the proportion of lots that are nearly or quite self-supporting will continually grow larger, but there will always be some of the older lots, sold in the early days of the cemetery, whose owners belong to families that have died out or have moved away or are unknown, which must be cared for without expectation of pay, unless from the perpetual care fund. That fund has now grown to be more than one hundred and twelve thousand dollars (\$112,000). It is well invested and the income from it is ample for the payment of all bills directly chargeable to it, and the balance can be properly used to help out in these necessary expenditures so that as uniform a condition and appearance as possible in the various sections of the ground may be kept up.

The subtrustees would make due acknowledgment of the action of the mayor and aldermen in making a purchase from the heirs of Mrs. Anna C. Smith of about ninety-four thousand square feet of land adjoining the cemetery on the north and reaching to the southerly line of Mitchell street and extending nearly one half way from Calef

road to Brown avenue. This is a very valuable addition to Pine Grove cemetery, which is now entirely surrounded by highways except a small territory in the northwest corner.

During the year the Merrill Yard was looked after as usual, and about the ordinary amount of work done with an appropriation of one hundred dollars.

All of which is respectfully submitted,

EDWIN F. JONES,

*Clerk for the Subtrustees.*

### Report of Trustees of Valley Cemetery.

*To the Trustees of Cemeteries and Board of Mayor and Aldermen of Manchester, N. H.:*

GENTLEMEN:—The subtrustees of the Valley cemetery would report for the year 1908 as follows:

Pursuing the policy of previous years, a policy somewhat limited because this is one of the oldest cemeteries which the city possesses, the services of the efficient superintendent, E. C. Smith, have been largely confined to the routine work of caring for two hundred and one private lots, as well as one hundred and ninety-six lots which were under perpetual care.

In addition to looking after the driveways, walks, grass, shrubbery and flower beds, as in previous years, he has set out one hundred and sixty-one evergreen trees, many of them replacing old trees that had to be removed, and the majority of which are doing well, and promise to add much to their various localities.

One thousand one hundred square feet of macadamized roadbed have been built, and four hundred and twenty feet of curbing laid. During the year forty-four bodies have been placed in the tomb. There have been forty-five interments and six removals. The foundations for thirteen new monuments have been set, and twenty-eight headstones and tablets were erected and eight headstones repaired—a somewhat larger amount of work in this direction than in previous years.

The general plan which the trustees adopted a few years since of putting the ground into what is commonly called a landscape lawn effect, has been followed the past year, and nearly eleven thousand feet have been graded and sown down with lawn seed. A large part of this work has been on the Auburn-street side, and at or near the Chestnut-street entrance.

The trustees are once more glad to thus publicly express their appreciation of that public spirit which has led Mrs. Moody Currier to add to her gift of last year, by placing not only two large and costly bronze vases for flowers at the side of the Chestnut-street entrance, but also placing at their disposal a sum sufficient to make a number of much-needed improvements inside the cemetery, and to lay a new



granolithic sidewalk, on the outside thereof on Auburn street; to recut all of the old stone wall on that street, and point the joints thereof with raised cement.

The improved appearance of this Auburn-street side of the cemetery is a more fitting monument to Mrs. Currier's generosity than anything that the trustees can say.

There is perhaps no other bit of work performed on the outside of but connected with the cemetery, that has added more to the comfort of the general public, as well as to the looks of the street and its surroundings, than the putting in of the new concrete bank wall and sidewalk on Pine street, finished with suitable curbstone for the same, similar to that which they set on Auburn street. What was heretofore a dangerous spot and an ugly blemish to that part of the cemetery and street has been transposed into a broad, safe walk of easy grade and pleasing to the eye, and at a cost well within the \$1,500 which the city appropriated for that purpose.

It is the intention of the trustees in the event that they can obtain the funds therefor to extend such walk along Pine street to Valley, and some day they are in hopes to be able to have the same extended the entire length of Valley street.

Nothing impresses the stranger in a city more favorably than the excellent sidewalks over which he passes, and certainly the citizen who has occasion for daily use of the same cannot fail to render thanks that the cemetery side of the Auburn and Pine-street walks are again safe for him to travel over.

The trustees cannot announce any special developments they hope to make either along new lines or in the new part of the cemetery, for, alas! new lines are not possible, and there is no new part to the Valley; but they can and do hope to keep and maintain in its entirety all the beauty and grandeur of that most remarkable location.

Respectfully,

FRANK C. LIVINGSTON,  
*Clerk of Board of Trustees.*

### Amoskeag Cemetery.

For the Year Ending December 31, 1908.

Expended for labor.....	\$250.13
Supplies .....	25.24
Water .....	12.00
Fence bought .....	211.00
	<hr/>
	\$498.37

Five hundred feet of fence was painted.

There were nine burials in the yard during the year 1908.

GEORGE C. HARWOOD,  
*Superintendent.*

## TREASURER'S REPORT.

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*To the Trustees of Cemeteries:*

GENTLEMEN:—I herewith present to you the annual report of money received during the year ending December 31, 1908.

### Pine Grove Cemetery.

	Interest.	Price of Lots.	Permanent Fund.	Total.
Ella J. Willard.....			\$31.95	\$31.95
Wilhelmina Johnson.....		\$22.27		22.27
Wilbur M. Gilman.....		22.65	28.32	50.97
Susan H. Ellis.....		39.00	48.75	87.75
Angelique Taggart .....		46.64	58.30	104.94
Henry G. Kidder .....		39.00	48.75	87.75
Cora M. Bell.....		30.56	38.20	68.76
Herbert E. Rouse.....		40.50	50.72	91.22
Smith W. Gage, Ernest O. Gage, and Cora Gage.....	\$9.19	60.00	75.00	144.19
George H. Christian.....	1.81	33.80	42.25	77.86
August Haeck .....		24.22	30.27	54.49
Albert E. Hall .....		28.00	35.00	63.00
Nellie A. Partridge.....		39.00	48.75	87.75
Hugh H. Whitman .....		31.20	39.00	70.20
Henry Trischman .....		20.66	25.83	46.49
Carl Handschumacher .....		41.34	51.67	93.01
John H. Huckins .....		24.00	30.00	54.00
William Nado .....		30.00	37.50	67.50
Gastav Volkmann .....		31.20	39.00	70.20
Elizabeth Johandl .....		24.00	30.00	54.00
Frederick Wagner .....		31.20	39.00	70.20
Eliza Eve .....		31.20	39.00	70.20
George A. Hall .....		25.72	32.15	57.87
Mary R. Warden .....		31.20	39.00	70.20
Emma J. Hill .....		40.40	50.50	90.90
Jeremiah Lane .....		48.30	60.37	108.67
George W. McClure .....		25.56	31.95	57.51
Henry Gray .....		48.56	133.52	182.08
E. G. Hastings and George L. Stearns .....		53.91	148.26	202.17



	Interest.	Price of Lots.	Permanent Fund.	Total.
G. C. Carter and Kate E. B.				
Carter .....		\$48.55	\$133.53	\$182.08
Lucy P. Colby.....		48.56	133.52	182.08
Clinton E. Dinsmore .....		56.87	156.40	213.27
Jennie M. Gage .....		29.00	79.75	108.75
Wilmot C. Frear.....		48.56	133.52	182.08
Estate Greenleaf Tibbetts....		57.85	159.09	216.94
John P. Newell.....	2.44	67.91	186.76	257.11
Charlie C. Burbank.....		48.56	133.52	182.08
Estate of George F. Elliot....	22.48	105.10	315.30	442.88
Mary W. Holbrook.....		105.50	316.50	422.00
Franklin N. Rogers.....		41.40	113.85	155.25
C. H. and C. B. French.....		69.95	192.38	262.33
Amelia I. McKean and Rebec- ca H. Miller .....		33.80	92.95	126.75
Ida Lyons and Helen Fos- burgh .....		72.64	199.76	272.40
John A. Hayward .....		28.57	78.58	107.15
Fred N. Dunbar.....		44.64	122.76	167.40
Ella W. Pierson.....		40.00	110.00	150.00
L. B. Bodwell.....	2.68	45.94	137.82	186.44
C. H. Bodwell .....	2.68	45.94	137.82	186.44
Orthanette Lamprey .....		20.00	55.00	75.00
Ellen Cottam .....		51.73	142.26	193.99
Ella F. Putney .....		118.22	354.66	472.88
Thomas J. Bond.....		20.00	55.00	75.00
Edwin R. Blaisdell .....		48.60	133.65	182.25
Letitia M. Weston .....		39.36	118.09	157.45
Frederick W. Southard.....		51.48	141.57	193.05
Abbie R. Herbert .....		39.00	107.25	146.25
F. H. Helson, Electa E. Hoyt, and Marcellus H. Hoyt ....		44.64	122.76	167.40
J. Frank Thompson, Robert Edgar, James Kearns, Charles Kearns, and Mary Millady .....		206.18	566.98	773.16
Ellen E. Clifford.....		50.55	139.02	189.57
Amanda Mitchell .....		24.00	66.00	90.00
Catherine Pollard .....		67.78	186.39	254.17
Albert Whitney .....		44.64	122.76	167.40
F. W. Russell, (guardian).....		10.00	8.00	18.00
Mary A. Bean.....		20.00	16.00	36.00
James M. Gannet .....		10.00	8.00	18.00
Louise Omand .....		10.00	8.00	18.00

	Interest.	Price of Lots.	Permanent Fund.	Total.
Alvah B. Emerson .....		\$10.00	\$8.00	\$18.00
Susie T. Demick .....		20.00	16.00	36.00
William T. Douglass.....		10.00	8.00	18.00
Estate Barbara Murray.....		10.00	8.00	18.00
Annie Robinson .....		10.00	8.00	18.00
August Bjork .....		10.00	8.00	18.00
Estate Charles H. Baker .....		10.00	8.00	18.00
Mrs. August Hoffman.....		20.00	16.00	36.00
George Bartlett .....		10.00	8.00	18.00
Estate Nellie McDonald.....		10.00	8.00	18.00
Charles W. Hartford.....		10.00	8.00	18.00
Interest .....	\$41.28			
Sale of lots .....		\$3,009.61		
Permanent fund .....			\$6,752.21	
Total receipts, sale of lots....				\$9,803.10
J. H. Erskine, superintendent, care of lots.....				6,665.24
Total .....				\$16,468.34

CR.

By amount paid to cemetery fund:

Perpetual care lots.....	\$5,526.98	
Single graves, Woodside lawn.....	144.00	
Partial perpetual care lots, Hillside lawn..	1,081.23	
		\$6,752.21
Treasurer's receipts for amount paid to city.....		3,050.89
Superintendent's receipts for amount paid to city.....		6,665.24
Total .....		\$16,468.34

## Merrill Yard Cemetery.

J. H. Erskine, superintendent, care of lots.....	\$57.00
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CR.

J. H. Erskine, superintendent, amount paid to city.....	\$57.00
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**Valley Cemetery,**

From J. E. Currier, path.....	\$13.50	
C. H. Gilmore, path.....	12.50	
Mrs. Harriet N. Nay, path.....	12.50	
Heirs Emma A. Durgin, path.....	15.00	
Eugene C. Smith, superintendent, care of lots .....	1,702.00	
	<hr/>	\$1,755.50
		<hr/>

CR.

By treasurer's receipts for amount paid to city .....	\$53.50	
By superintendent's receipts for amount paid to city .....	1,702.00	
	<hr/>	\$1,755.50
		<hr/>

Respectfully submitted,

FRED L. ALLEN,

*Treasurer Trustees of Cemeteries.*

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same are correctly cast and vouched for.

JAMES E. DODGE,

*City Auditor.**To the Trustees of the Cemetery Fund:*

GENTLEMEN:—I herewith submit to you the twenty-sixth annual report of the funds received and expenses paid to January 1, 1909:

**Pine Grove Cemetery.**

Amount of permanent fund January 1, 1908.....	\$104,798.98
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## RECEIPTS DURING THE YEAR.

From William M. Plummer.....	\$129.60
Robert Laing .....	144.00
Lucy Smith and A. E. Martin.....	169.60
Harry L. Davis, administrator.....	160.00
Sophronia T. Young .....	158.50
Louisa J. Robinson .....	140.00
Josephus Traverse .....	100.00
Fannie L. Roper .....	144.00
John Dowst, administrator.....	160.00
F. L. Blair, executor.....	160.00

From Mrs. E. G. Merrill.....	\$144.00	
Estate Mrs. Henry Bennett.....	100.00	
Transferred from Pine Grove cemetery re- ceipts, perpetual care lots.....	5,526.98	
Partial perpetual care lots, Hillside lawn...	1,081.23	
Partial perpetual care lots, single graves, Woodside lawn .....	144.00	
	<hr/>	
Receipts for the year .....		\$8,461.91
		<hr/>
Total of fund .....		\$113,260.89
		<hr/> <hr/>

## CR.

By bonds on hand .....	\$88,050.00	
By cash on hand .....	25,210.89	
	<hr/>	
		\$113,260.89
		<hr/> <hr/>

## INCOME ACCOUNT.

Income on hand January 1, 1908.....		\$3,696.72
Interest savings bank.....	\$379.92	
Interest savings bank, Hillside lawn.....	309.08	
Interest savings bank, Woodside lawn.....	15.10	
Interest coupons .....	3,782.50	
	<hr/>	
Income for the year.....		4,486.60
		<hr/>
Total .....		\$8,183.32
		<hr/> <hr/>

## EXPENSES PAID DURING THE YEAR.

J. D. French.....	\$257.70
Mrs. A. L. Dodge.....	1.50
Union Coal Co.....	20.72
William Stevens .....	5.00
George P. Ames .....	13.48
Harry F. Blanchard .....	10.50
W. E. Dunbar & Sons.....	78.00
Charles Wiley .....	39.75
Manchester Hardware Co.....	120.88
Charles Wiley .....	42.37
H. B. Neal .....	8.40
F. Pepin .....	42.75
Louis Proudhomme .....	44.55
Robert Blanchet .....	52.50
James Thompson .....	183.00

F. Pepin .....	\$27.00	
Charles A. Bailey .....	537.50	
J. H. Erskine, superintendent, care of perpetual care lots .....	2,415.00	
J. H. Erskine, superintendent, care of lots, Hillside lawn .....	309.08	
J. H. Erskine, superintendent, care of lots, Woodside lawn .....	15.10	
J. H. Erskine, superintendent, labor, cleaning stones and monuments.....	157.50	
Total expenses .....		\$4,382.28
Cash income on hand .....		3,801.04
		<u>\$8,183.32</u>

## Valley Cemetery.

Amount of permanent fund January 1, 1908.....	\$34,678.17
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## RECEIPTS DURING THE YEAR.

From Mrs. A. L. Walker.....	\$144.00	
Nancy J. Smith .....	120.00	
Louisa S. Colby .....	115.20	
Joseph Kidder memorial committee..	113.60	
William N. Johnson .....	120.00	
Mary Lawrence .....	100.00	
Julia A. Leavitt and Carrie E. Coffin..	154.00	
Louis C. Merrill, administrator of the estate of Lucinda L. Farnham.....	300.00	
Receipts for the year .....	1,166.80	
Total of fund .....		<u>\$35,844.97</u>

## CR.

By bonds on hand .....	\$31,500.00	
By cash on hand .....	4,344.97	
		<u>\$35,844.97</u>

## INCOME ACCOUNT.

Income on hand January 1, 1908.....	\$4,025.93
Interest savings banks.....	\$289.21
Interest coupons .....	1,350.00
Income for the year .....	1,639.21
Total .....	<u>\$5,665.14</u>

## EXPENSES PAID DURING THE YEAR.

John B. Varick Co.....	\$38.00	
Pine Grove cemetery.....	33.00	
Payroll .....	100.50	
Charles A. Bailey .....	325.00	
W. E. Dunbar & Sons.....	74.25	
Palmer & Garmon .....	2.50	
E. C. Smith, superintendent .....	757.00	
		<hr/>
Total expenses .....		\$1,330.25
Cash income on hand .....		4,334.89
		<hr/>
		\$5,665.14
		<hr/> <hr/>

## Merrill Cemetery.

Amount of permanent fund January 1, 1908.....	\$987.89	
From Mary Cressey .....	\$100.00	
I. R. Dickey.....	200.00	
		<hr/>
Receipts for the year .....		300.00
		<hr/>
Total of fund .....		\$1,287.89
		<hr/> <hr/>

## CR.

By bonds on hand.....	\$450.00	
By cash on hand .....	837.89	
		<hr/>
		\$1,287.89
		<hr/> <hr/>

## INCOME ACCOUNT.

Income on hand January 1, 1908.....	\$309.27	
Interest savings bank .....	\$28.95	
Interest coupons .....	22.50	
		<hr/>
Income for the year .....		51.45
		<hr/>
Total .....		\$360.72
		<hr/> <hr/>

## EXPENSES PAID DURING THE YEAR.

J. H. Erskine, superintendent.....	\$37.00	
Cash income on hand .....	323.72	
		<hr/>
		\$360.72
		<hr/> <hr/>



## GALE FUND INCOME ACCOUNT.

Amount of income January 1, 1908.....	\$183.70	
Interest savings bank .....	7.25	
Interest from fund .....	12.12	
		<hr/>
Total .....		\$203.07
		<hr/> <hr/>

## EXPENSES PAID DURING THE YEAR.

E. C. Smith, superintendent, for care of Gale tomb .....	\$6.00	
Cash on hand .....	197.07	
		<hr/>
		\$203.07
		<hr/> <hr/>

Respectfully submitted,

FRED L. ALLEN,

*Treasurer of the Trustees of the Cemetery Fund.*

This is to certify that I have examined the books of account of Fred L. Allen, treasurer of the cemetery funds, embracing the receipts and expenditures for the year 1908, and I find the same correct and properly vouched. I have also examined the securities in which said fund is invested and find as follows:

## PINE GROVE CEMETERY.

20 city of Manchester 5 per cent cemetery bonds, Nos. 1, 2, 3, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 22, 23, 24, 26, 28, due 1942; de- nomination \$1,000 each.....	\$20,000.00
2 city of Manchester 5 per cent cemetery bonds, Nos. 1, 2, due 1942; denomination \$500 each .....	1,000.00
1 city of Manchester 5 per cent cemetery bond, No. 3, due 1942.....	50.00
14 city of Manchester 5 per cent cemetery bonds, Nos. 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, due 1913; denomination \$1,000 each .....	14,000.00
1 city of Manchester 5 per cent cemetery bond, No. 2, due 1913.....	500.00
5 city of Manchester 5 per cent cemetery bonds, Nos. 1, 2, 3, 9, 10, due 1913; denomi- nation \$100 each .....	500.00

16 city of Manchester 3½ per cent city bonds, Nos. 21, 22, 23, 71, 72, 73, 74, 75, 91, 92, 94, 95, 96, 97, 98, 99, due April 1, 1919; denomination \$1,000 each.....	\$16,000.00	
6 city of Manchester 4 per cent city bonds, Nos. 113 to 118 inclusive; due April 1, 1909,	6,000.00	
1 city of Manchester 4 per cent school bond, due July 1, 1913.....	1,000.00	
2 city of Manchester 4 per cent improvement bonds, Nos. 1, 2, due April 1, 1916.....	2,000.00	
4 city of Manchester 4 per cent water bonds, Nos. 21, 22, 23, 24, due 1917.....	4,000.00	
4 city of Manchester 3½ per cent municipal bonds, Nos. 41, 42, 43, 44, due July 1, 1922..	4,000.00	
19 city of Manchester 4 per cent water bonds, Nos. 24 to 40 inclusive, 4, 7, due July 1, 1915 .....	19,000.00	
	<hr/>	\$88,050.00
Cash on deposit in Manchester Savings Bank, Book No. 50420.....	\$11,803.42	
Cash on deposit in Mechanics Savings Bank, Book No. 3413.....	8,166.44	
Cash on deposit in Mechanics Savings Bank, Book No. 4407 .....	8,530.07	
Cash on deposit in Mechanics Savings Bank, Book No. 4522 .....	512.00	
	<hr/>	29,011.93
Total amount of permanent fund and income December 31, 1908 .....		<u><u>\$117,061.93</u></u>

## VALLEY CEMETERY.

4 city of Manchester 5 per cent cemetery bonds, Nos. 1, 6, 11, 18, due 1913; denomination \$1,000 each .....	\$4,000.00
1 city of Manchester 5 per cent cemetery bond, No. 1, due 1913; denomination \$500..	500.00
3 city of Manchester 5 per cent cemetery bonds, Nos. 6, 7, 8, due 1913; denomination \$100 each .....	300.00
8 city of Manchester 5 per cent cemetery bonds, Nos. 4, 7, 12, 19, 20, 21, 25, 27, due 1942; denomination \$1,000 each .....	8,000.00
2 city of Manchester 5 per cent cemetery bonds, Nos. 2, 4, due 1942; denomination \$50 each .....	100.00

3 city of Manchester 4 per cent improvement bonds, Nos. 3, 4, 5, due April 1, 1916.....	\$3,000.00	
3 city of Manchester 3½ per cent city bonds, Nos. 81, 93, 100, due April 1, 1919; denomination \$1,000 each .....	3,000.00	
6 city of Manchester 3½ per cent municipal bonds, Nos. 35, 36, 37, 38, 39, 40, due 1922,	6,000.00	
6 city of Manchester 5 per cent cemetery bonds, Nos. 3, 4, 5, 6, 7, 8, due 1942; denomination \$100 each .....	600.00	
6 city of Manchester 4 per cent water bonds, Nos. 8, 9, 10, 11, 12, 13, due July 1, 1915.....	6,000.00	
	<hr/>	\$31,500.00
Cash on deposit in Guaranty Savings Bank, Book No. 4527 .....	\$259.35	
Cash on deposit in Mechanics Savings Bank, Book No. 5569 .....	6,618.50	
Cash on deposit in Amoskeag Savings Bank, Book No. 68808 .....	1,802.01	
	<hr/>	8,679.86
Total amount of permanent fund and income December 31, 1908 .....		<u>\$40,179.86</u>

## MERRILL CEMETERY.

2 city of Manchester 5 per cent cemetery bonds, Nos. 4, 5, due 1913; denomination \$100 each .....	\$200.00	
2 city of Manchester 5 per cent cemetery bonds, Nos. 1, 2, due 1942; denomination \$100 each .....	200.00	
1 city of Manchester 5 per cent cemetery bond, No. 1, due 1942; denomination \$50...	50.00	
Cash on deposit in Guaranty Savings Bank, Book No. 5116 .....	8.00	
Cash on deposit in Amoskeag Savings Bank, Book No. 69517 .....	1,153.61	
	<hr/>	\$1,611.61
Total amount of fund and income December 31, 1908,		<u>\$1,611.61</u>

## GALE FUND INCOME ACCOUNT.

Cash on hand in Amoskeag Savings Bank, Book No. 34108 .....	\$197.07	
Total amount of permanent fund and income on hand .....	\$159,050.47	
	<hr/>	<u>\$159,050.47</u>

JAMES E. DODGE,  
City Auditor.



REPORTS  
OF THE  
STREET AND PARK COMMISSIONERS  
AND THE  
ENGINEER'S DEPARTMENT.





# REPORT OF THE BOARD OF STREET AND PARK COMMISSIONERS.

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OFFICE OF THE BOARD OF STREET AND PARK COMMISSIONERS.

MANCHESTER, N. H., December 31, 1908.

*To His Honor the Mayor, the Board of Aldermen, and the Common Council  
of the City of Manchester, N. H.:*

GENTLEMEN:—We herewith submit the sixteenth annual report of the board of street and park commissioners, which comprises details of the operations conducted by the department during the year 1908.

WILLIAM McELROY,

BYRON WORTHEN,

SAMUEL J. LORD,

*Board of Street and Park Commissioners.*

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## Organization for the Year 1908.

BOARD OF STREET AND PARK COMMISSIONERS.

WILLIAM McELROY, *Chairman.*

BYRON WORTHEN.

SAMUEL J. LORD, *Chief Engineer.*

### OFFICE.

Harrie H. Clement, clerk (stenographer, typewriter and book-keeper).

John J. McAllister, Jr., assistant clerk.

Mr. McAllister, engineer's department stenographer and typewriter, was transferred to this office when required.

### STREETS AND SEWERS.

George P. Ames, superintendent, District No. 2.

Harold M. Haskell, inspector and timekeeper, District No. 2.

Harry T. George, timekeeper, District No. 2 (from May 6, 1908).

Alphonse Laberge, superintendent, District No. 10.

John Gemmell, timekeeper, District No. 10.

Charles Francis, superintendent and timekeeper, District Nos. 7 and 8.

- Mark E. Harvey, superintendent and timekeeper, District No. 5.  
Byron E. Moore, superintendent and timekeeper, District No. 4.  
Levi J. Proctor, superintendent and timekeeper, District No. 8 (up to June 22, 1908).  
Lester C. Paige, superintendent and timekeeper, District No. 9.

SCAVENGER SERVICE AND STREET SWEEPING.

Levi J. Proctor, inspector (Mr. Proctor took charge of this department on February 24, 1908, and also has charge of the city farm).

PARKS AND COMMONS.

A. J. Seastrom, superintendent and timekeeper.

The board of street and park commissioners met at 1.30 and 2.00 o'clock P. M. daily, except Saturdays and holidays.

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The following contracts were awarded by the board:

- Brick, W. F. Head & Son, Hooksett, N. H.  
Broken stone, Winchester Stone Company, Boston, Mass.; Massachusetts Broken Stone Co., Boston, Mass.  
Brown-tail and gypsy moth, Munson-Whitaker Co., Boston, Mass.  
Cement, Arthur S. Brown, The J. H. Mendell Company, Henry W. Parker.  
City farm, leased from the aldermanic committee on city farm. (This includes the balance of the farm but does not include the tract of land leased in November, 1907.)  
City yard, Amoskeag Manufacturing Co. (embracing the tract of land between Valley, Hayward, Maple and Lincoln streets).  
Fence posts, B. F. Greer, Grasmere, N. H.  
Granite curbing, Paradise & Dionne, Manchester, N. H.  
Granite paving blocks, Charles A. Bailey, Suncook, N. H.  
Granite street bridge (over Merrimaack river) painting, The United Construction Co., Albany, N. Y.  
Iron castings, The Sessions Foundry Co., Bristol, Conn.  
Lumber, The J. H. Mendell Co., Manchester, N. H.; Pike & Smith, Manchester, N. H.; B. F. Greer, Grasmere, N. H.  
Oats, McQuesten & Lewis, Manchester, N. H.; Arthur S. Brown, Manchester, N. H.; F. H. Masse & Co., Manchester, N. H.  
Plants, Fred J. Bixby, Manchester, N. H.  
Sewer pipe, Manchester Supply Co., Manchester, N. H.  
Sidetrack at Valley street city yard, Boston & Maine railroad.  
Steam road roller, The Buffalo Steam Roller Co., Boston, Mass.

## POLE LINES AND POLE LOCATIONS GRANTED AND REVOKED DURING THE YEAR 1908.

LOCATION.	LIMITS.	POLE LINE LOCATIONS.		POLE LOCATIONS.		
		Granted.	Revoked.	Granted.	Revoked.	
Adams, west side .....	Webster, northerly .....			1		M. T. L. & P. Co. Sept. 28, 1908
Alfred, east side .....	Amherst, north side .....			1		" " Aug. 20, 1908
Allen, north side .....	Main (south), westerly .....			2		N. E. T. & T. Co. Nov. 12, 1908
Alsace, west side .....	Amory to Kelley .....			6		M. T. L. & P. Co. Oct. 9, 1908
" " .....	" " .....				3	" " " 9, 1908
Amory, south side .....	Bartlett, westerly .....			3		" " " 9, 1908
" " .....	" " .....				2	" " " 9, 1908
" " north side .....	Alsace, easterly .....			1		" " " 9, 1908
Arah, south side .....	Union, easterly .....			26		" " " 20, 1908
" " .....	Union, easterly .....			1		" " " 9, 1908
Arlington, south side .....	Maple, easterly .....			2		N. E. T. & T. Co. Sept. 17, 1908
" " .....	Nashua, westerly .....			2		M. T. L. & P. Co. Sept. 28, 1908
Baker, south side .....	Elm to Brown avenue .....			3		" " " 9, 1908
Bartlett, east side .....	Amory extension to Putnam .....			8		N. E. T. & T. Co. July 27, 1908
" " .....	Putnam, southerly .....			1		" " " 27, 1908
" " west side .....	Amory extension, north side .....			1		" " " 3, 1908
" " " .....	South of Sullivan to north line of Amory .....			1		M. T. L. & P. Co. Oct. 9, 1908
" " .....	South of Sullivan to north line of Amory .....			17		" " " 9, 1908
Belmont, west side .....	East High, north side .....			1	14	" " " 9, 1908
Bismarck, west side .....	Mifford, northerly .....			3		N. E. T. & T. Co. Dec. 21, 1908
Blodget, south side .....	Walnut east back, westerly .....			1	3	" " " 23, 1908
" " .....	Walnut east back, east side .....			6		" " " 23, 1908
Brook (West), south side .....	Elm to Canal .....			1		" " " 12, 1908
Brown avenue, west side .....	Mill avenue, northerly .....	1				" " " Nov. 15, 1908
" " .....	Pine Island park to London-derry road .....	1				" " " May 18, 1908
" " .....	Mill avenue, northerly .....	1				" " " 18, 1908
" " .....	" " .....	1	1			" " " 18, 1908
" " .....	" " .....		1			" " " 18, 1908
" " east side .....	Baker to Shasta .....			7		P. T. & C. Co. Oct. 9, 1908
" " .....	" " .....			3		M. T. L. & P. Co. " 9, 1908
" " .....	Shasta, northerly .....			2		" " " 9, 1908
" " west side .....	Cheney place, southerly .....			1		" " " 9, 1908
" " .....	Cheney place, southerly .....					" " " 9, 1908







## POLE LINES AND POLE LOCATIONS GRANTED AND REVOKED DURING THE YEAR 1908.

LOCATION.	LIMITS.	POLE LINE LOCATIONS.		POLE LOCATIONS.		
		Granted.	Revoked.	Granted.	Revoked.	
Union, west side.	Trenton, northerly	.....	.....	5	.....	Dec. 4, 1908
" east back, east side.	Sagamore, north side	.....	.....	1	.....	Nov. 12, 1908
" " "	" " "	.....	.....	.....	1	" 12, 1908
Vine, east side.	Between Amherst and Concord	.....	.....	2	.....	Jan. 21, 1908
Vinton, south side.	Taylor, easterly	.....	.....	2	.....	Dec. 21, 1908
Walnut east back, west side	Salmon to North	.....	.....	3	.....	Aug. 20, 1908
Welch avenue, south side.	Calef road, westerly	.....	.....	3	.....	May 15, 1908
" " "	" " "	.....	.....	.....	3	" 15, 1908
Willow, north side.	Beech to Maple	.....	.....	9	.....	Aug. 20, 1908
Young, north side	Between Jewett and Riley ave.	.....	.....	1	.....	July 21, 1908
" " "	Riley avenue, easterly	.....	.....	1	.....	" 21, 1908
		3	2	433	120	



# Board of Street and Park Commissioners in account with the Appropriation for Street and Park Commission.

## By commissioners' salaries:

William McElroy, year 1908.....	\$750.00	
Byron Worthen, year 1908.....	750.00	
Samuel J. Lord, year 1908 ( $\frac{1}{2}$ salary).. <td>1,100.04</td> <td></td>	1,100.04	
	<hr/>	\$2,600.04

## By superintendents' salaries:

George P. Ames, Division No. 2,		
On payroll (from Jan. 1 to Aug. 1, 1908) .....	\$800.00	
Salary from Aug. 1, 1908.....	619.15	
Balance due on account of salary for year April 1, 1907, to April 1, 1908..	200.00	
		<u>1,619.15</u>

Charles Francis, Division No. 7,		
On payroll (from Jan. 1 to Aug. 1, 1908) .....	\$672.00	
Salary from Aug. 1, 1908.....	500.00	
		<u>1,172.00</u>

Alphonse Laberge, Division No. 10,		
On payroll (from Jan. 1 to Aug. 1, 1908) .....	\$576.00	
Salary from Aug. 1, 1908.....	455.00	
		<u>1,031.00</u>

## By timekeepers' salaries:

H. M. Haskell (Div. 2) on payroll.....	\$918.97	
H. T. George (Div. 2) on payroll (from May 1, 1908).....	405.90	
John Gemmell (Div. 10) on payroll.....	761.50	
		<u>2,086.37</u>

## By office salaries:

H. H. Clement, on payroll.....		909.04
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## By office reports:

John B. Clarke Company .....		54.60
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## By printing and advertising:

John B. Clarke Co.....	\$107.20	
Temple & Farrington Co.....	27.00	
J. Arthur Williams .....	29.00	
Union Publishing Co.....	9.49	
		<u>172.69</u>

## By supplies:

W. P. Goodman.....	\$33.66	
Temple & Farrington Co.....	50.40	
Hardy Printing Co.....	4.66	
Frank E. Wood .....	1.50	
John B. Varick Co.....	1.21	
Yawman & Erbe Mfg. Co.....	12.90	
		<u>104.33</u>

By office furniture:		
Yawman & Erbe Mfg. Co.....	\$38.00	
Globe-Wernicke Co.....	14.00	
		\$52.00
By telephones and tolls:		
New England Telephone & Telegraph Co.....		158.99
By magazines:		
Municipal Publishing Co., "Municipal Journal" .....	\$3.00	
E. L. Powers Co., "Good Roads" .....	1.00	
		4.00
By traveling expenses:		
William McElroy .....		32.79
By ice for office:		
L. B. Bodwell & Co.....		6.00
By freight:		
Boston & Maine Railroad.....		2.21
By cash paid for express and supplies:		
H. H. Clement .....		42.36
By miscellaneous bills:		
C. M. Dodge for attendance on A. Gagnon, injured July 28, 1908.....	\$5.00	
Farrell Bros. (electric light switch at urinal in Merrimack common).....	1.45	
Bridge Street Auto Garage (10 hours labor and stock making draw fasteners for filing cabinet).....	5.00	
J. W. Stockbridge (24 rolls paper for adding machine) .....	2.75	
		14.20
To appropriation for street and park com- mission .....	\$3,300.00	
To overdraft .....	6,761.77	
	\$10,061.77	\$10,061.77

Following is a schedule of material received in carload lots.

Broken stone:	No. cars.
Winchester Stone Co. ....	202
Massachusetts Broken Stone Co.....	73
	275
Sewer pipe .....	23
Brick .....	10
Cement .....	9
Coal .....	6
Lumber .....	12
Granite paving blocks .....	85
Wood paving blocks .....	6
Tarvia .....	2
Steel, McGregor bridge .....	3
Total .....	431

Bills of material purchased under contract, subject to discount if paid within five days, discounts taken ....	\$310.00
Demurrage collected for delay in delivering broken stone within the specified time .....	261.00
Rebate collected from the Hassam Paving Co. (overpaid in 1906 contract) .....	180.00
	<hr/>
	\$751.00

Cash was paid into the city treasury for labor done or materials furnished (or both) by this department by persons, firms or corporations and credited to appropriations, as listed in the following schedule:

(All moneys are paid direct to the city treasurer and do not pass through the hands of the board.) For more detailed statements see credits under appropriations cited.

Name.	Appropriation.	Cash.	Total.
Adams Bros.	New sewers		\$25.57
Amoskeag Mfg. Co.	Paving streets		2.42
Boston & Maine Railroad	Repairs of sewers		5.14
Bowker, William H.	Repairs of highways		8.65
Cerweney, Joseph	New sewers		.96
Coldwell, Samuel R.	Bridges		1.25
County of Hillsborough	Brown-tail and gypsy moth		11.20
Elliot Hospital	New sewers		15.36
Good Roads Co. of America	Watering streets		52.50
Hadley, Chas. J.	Repairs of highways		2.47
Hassam Paving Co.	Paving streets		180.00
Hebert, G. D.	Repairs of highways		1.00
Hooksett, Town of	New sewers		39.23
Hull, E. B.	Repairs of sewers		2.91
Hutchinson Building Co.	Repairs of highways		9.85
Katz & Gordon	City teams		161.09
Leighton, F. D.	New sewers		1.18
Leonaise, William	Repairs of highways		5.00
Lewis, F. G.	Repairs of sewers		9.45
Lindquist, John A.	Repairs of highways		2.00
Londonderry, Town of	Repairs of sewers		7.09
Manchester Street Railway	Repairs of highways	\$3.50	
	Paving streets	12,738.60	
	Repairs of sewers	15.85	
		<hr/>	12,757.95
Mendell Co., The J. H.	New sewers		5.04
Moquin, J. B.	New sewers		5.41
Mudgett, J. W.	Repairs of sewers	\$1.95	
	Paving streets	6.12	
		<hr/>	8.07
O'Donnell, William	New sewers		2.08
Parker, Henry W.	Bridges	\$300.00	
	City teams	1.00	
		<hr/>	301.00

Name.	Appropriation.	Cash.	Total.
Peach, August	New sewers		\$3.72
Pike & Heald Co.	New sewers	\$8.70	
	Repairs of sewers	8.84	
	Paving streets	1.56	
		<hr/>	19.10
Horea, Hugh M.	City teams		10.00
Raymond, Town of	Repairs of sewers		15.13
Seastrom, John	Commons		10.00
Smith, E. C., Supt.	Repairs of highways		29.50
Stark Mills	Brown-tail and gypsy moth		61.95
Stevens & Bradley	New sewers		24.00
Tax Collector	Brown-tail and gypsy moth		647.09
United Construction Co.	Bridges		22.50
Valley cemetery	Repairs of highways		1,173.05
Wagner, Edward, Est.	Repairs of highways		4.60
Walker, Fred	Repairs of highways		.50
Water-works	Brown-tail and gypsy moth	\$27.75	
	Bridges	146.61	
	New sewers	1,244.33	
		<hr/>	1,418.69
Watson, Dana A.	Miscellaneous playgrounds		55.00
Weare, Town of	Repairs of sewers		13.80
Welch, R. F.	New sewers		3.00
Wilson, W. C.	Repairs of highways		3.12
			<hr/>
			\$17,139.12

The following table shows the total amount expended under each appropriation and the percentage of each appropriation expended for labor:

Appropriation.	Amount expended.	Labor.
Street and park commission,	\$10,061.77	93.59%
Snow and ice	6,110.89	98.66%
Repairs of highways,	49,123.27	77.86%
(Broken stone 13.54%)		
New highways,	545.89	100.00%
Watering streets,	8,143.78	83.17%
Paving streets,	22,444.15	27.82%
(Paving blocks 60.85%)		
Grading for concrete,	2,936.62	83.67%
Scavenger service,	25,725.10	98.72%
Bridges,	13,912.73	36.80%
(Steel beams 22.62%)		
(Plank 17.86%)		
(Paint 4.01%)		
City teams,	17,819.83	42.91%
(Oats and corn 19.24%)		
(Horses, mules and wagons 21.36%)		
(Rent city farm 4.01%)		
Repairs of sewers,	6,175.32	70.41%
(Brick, castings and C. P. Stone 25.50%)		

## STREET AND PARK COMMISSIONERS.

475

Appropriation.	Amount expended.	Labor.
New sewers,	\$16,991.20	62.15%
(Sewer pipe, 21.90%)		
(Cement, dynamite and lumber 12.87%)		
Brown-tail and gypsy moth,	5,591.30	95.78%
Commons,	4,219.00	64.50%
(Water 17.16%)		
(Plants 5.59%)		
(Repairing walks, part labor 84.3%)		
Stark park,	911.46	88.44%
Derryfield park,	985.12	88.87%
Lafayette park,	1,928.30	98.94%
Miscellaneous playgrounds,	276.84	38.82%
(Renting playground in East Manchester 18.06%)		
(Water, insurance, repairs Prout park buildings 42%)		
City yard,	8,041.17	38.82%
(B. & M. sidetrack 9.10%)		
(Yard 62.17%)		
(Fence around yard 10.81%)		

Following is a statement of the proportion of each classification (under recapitulation) to the total amount expended.

Brick .....	.0036
Broken stone .....	.0306
Cement .....	.0117
City farm (rent).....	.0039
City yard, Valley street (yearly payment and sidetrack),	.0269
Concrete (repairing streets) .....	.0070
Curbing .....	.0058
Feed .....	.0157
Flowers and plants.....	.0015
Freight .....	.0072
Fuel .....	.0063
Gravel and clay .....	.0001
Horses and mules .....	.0128
Ice .....	.0007
Iron castings .....	.0037
Lights .....	.0019
Lumber .....	.0211
Machinery (new) .....	.0246
Old bills .....	.0006
Paint .....	.0031
Paving blocks .....	.0627

Brown-tail moth (labor).....	.0220	
Brown-tail moth (inspectors) .....	.0021	
Garbage (labor) .....	.0088	
Miscellaneous (labor) .....	.0044	
Paving (labor) .....	.0080	
Repairs (labor) .....	.0323	
Pay-roll .....		.6979
Printing .....		.0012
Sewer pipe .....		.0168
Supplies .....		.0266
Valley cemetery (wall) .....		.0015
Veterinary and medicine.....		.0005
Water .....		.0040
		<hr/> 1.0000

**Board of Street and Park Commissioners in account  
with the Appropriation for Snow and Ice.**

By snowplows:		
A. B. Black, 1 gutter plow.....	\$65.00	
To cash in December, 1907.....	35.00	
	<hr/>	\$30.00
By freight:		
Boston & Maine Railroad.....		\$2.28
By supplies:		
John B. Varick Co. (shovels, etc.).....	\$29.63	
J. E. MacDonald (barrels).....	3.50	
Pike & Heald Co.....	.40	
	<hr/>	\$33.53
By lumber and labor:		
The J. H. Mendell Co.....	\$5.75	
The Head & Dowst Co.....	9.82	
	<hr/>	\$15.57
By payrolls:		
Division No. 2 .....	\$2,790.56	
Division No. 10 .....	2,762.86	
Division No. 7 .....	311.28	
Division No. 4 .....	39.73	
Division No. 8 .....	30.75	
Commons .....	94.33	
	<hr/>	\$6,029.51
To appropriation for snow and ice.....	\$9,000.00	
By balance unexpended .....		2,889.11
	<hr/>	<hr/>
	\$9,000.00	\$9,000.00



## ITEMIZED OPERATIONS.

## AMOSKEAG BRIDGE.

(944-946) Snowing bridge:

17 loads.

Labor of men ..... \$13.08

Labor of teams ..... 6.00

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\$19.08

## CHESTNUT STREET.

(952-955) Work on speedway:

Labor of men ..... \$9.29

Labor of teams ..... 13.37

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\$22.66

(951) Driving park, sprinkling:

Labor of team ..... 6.75

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\$29.41

Charged to the Manchester Driving Club and credit will appear in the 1909 report.

## DERRYFIELD LANE.

(930-932) Removing snow in rear of Mirror block:

Labor of men ..... \$16.97

Labor of teams ..... 8.87

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\$25.84

Charged to James E. Dodge, agent, and credit will appear in the 1909 report.

## ELM STREET.

(934) Leveling up snow and ice with road machine:

Labor of men ..... \$2.39

Labor of teams ..... 3.50

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\$5.89

Charged to Manchester Street Railway and credit will appear in the 1909 report.

(933)

Labor of men ..... \$25.68

Labor of teams ..... 15.75

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\$41.43

Charged to Manchester Street Railway and credit will appear in the 1909 report.

(942)

Labor of men ..... \$3.65

Labor of teams ..... 2.25

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\$5.90

(943) Breaking sidewalks, Division No. 7:			
Labor of men .....	\$7.50		
Labor of teams .....	24.75		
			\$32.25
(935-939) Drawing sand from Pike's bank and filling sand sheds:			
Labor of men .....	\$139.51		
Labor of teams .....	203.62		
			\$343.13
(940-941) Running gutter plow:			
Labor of men .....	\$38.80		
Labor of teams .....	38.25		
			\$77.05
(947-949) Thawing out cesspools:			
Labor of men .....	\$129.34		
Labor of teams .....	82.24		
			\$211.58
WELCH AVENUE.			
(950) Pumping out cellar and cleaning mud from same:			
Labor of men .....	\$24.52		
Labor of teams .....	3.37		
			\$27.89
Caused by faulty street drainage.			

Sidewalks were sanded on days listed as follows:

January 5, 6, 7, 24, 25, 29, 30, 31.

February 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 20, 21, 22, 25, 26, 27, 28, 29.

March 2, 3, 4, 5, 6, 8, 10, 11, 17, 18, 19.

November 18, 19.

December 12, 13, 14, 16, 17, 21, 22, 23, 24, 25, 26, 28, 30, 31.

Sidewalks were ploughed on days listed as follows:

February 1, 6, 19 and 20.

December 12 and 18.

Ninety-eight and six tenths per cent of the money expended under the appropriation for snow and ice was for labor performed in cleaning gutters from snow and ice, cleaning crossings, running street-gutter plows, sidewalk plows, carting snow, sanding sidewalks, and other work incidental to snow and freezing weather.

About 600 loads of sand are used throughout the winter in sanding sidewalks.

**Board of Street and Park Commissioners in account  
with the Appropriation for Repairs of Highways.**

By broken stone, Winchester Stone Company:		
3,057.71 tons No. 3 size @ \$1.29 .....	\$3,944.45	
487.64 tons No. 2 size @ \$1.29 .....	629.06	
59.85 tons pea size @ \$1.29 .....	77.20	
622.67 tons dust size @ \$1.29 .....	803.24	
	<hr/>	
	\$5,453.95	
To 2% discount for cash .....	\$109.01	
To demurrage .....	261.00	
	<hr/>	
	370.01	
	<hr/>	
		\$5,083.94
By broken stone, Massachusetts Broken Stone Company:		
747.63 tons No. 3 size @ \$1.35 .....	\$1,009.29	
751.47 tons No. 3 size @ \$1.40 .....	1,052.06	
104.50 tons No. 2 size @ \$1.35 .....	141.07	
27.37 tons pea size @ \$1.40 .....	38.31	
164.23 tons dust size @ \$1.35 .....	221.71	
72.68 tons dust size @ \$1.40 .....	101.75	
	<hr/>	
	\$2,564.19	
To freight (paid by city) .....	\$996.34	
To telephone call .....	.25	
	<hr/>	
	996.59	
	<hr/>	
		\$1,567.60
By gravel and stone chips:		
Edwards O. Dodge, 25 loads stone chips @ 20c .....	\$5.00	
Eugene Libbey, 127 loads gravel @ 10c.,	12.70	
John Lovering, 47 loads gravel @ 10c.,	4.70	
Oliver Merrill, 17 loads gravel @ 10c.,	1.70	
A. N. Nettle, 50 loads gravel @ 10c.,	5.00	
	<hr/>	
		\$29.10
By coal, L. B. Bodwell & Company:		
53.683 tons steam coal @ \$4.65 .....	\$249.62	
51.636 tons steam coal @ \$5.00 .....	258.18	
.263 tons steam coal @ \$5.50 .....	1.65	
1.000 tons steam coal @ \$6.00 .....	6.00	
	<hr/>	
		\$515.45
By kerosene oil:		
Arthur A. Warren, 760 gals. kerosene oil @ 10c.,		\$76.00
By supplies:		
John B. Varick Co., tools, etc. ....	\$437.91	
Vacuum Oil Co., 50 gals. engine oil @ 25c .....	\$12.50	
To 10% discount .....	1.25	
	<hr/>	
	11.25	

By Manchester Oil & Supply Co., grease....	\$3.00	
Barrett Mfg. Co., 119 bbls.		
Tarvia .....	\$497.11	
To empty bbls. returned, \$24.05		
By freight.....	2.60	
	<hr/>	21.45
		<hr/>
		475.66
H. W. Parker, oatmeal and lime.....	12.35	
The Head & Dowst Co., lumber.....	4.26	
Water commissioners (water for crushers) .....	22.50	
People's Gas-Light Co., 25 bbls. coal tar		
@ \$2.75 .....	68.75	
Annis Flour & Grain Co., lanterns.....	2.50	
Manchester Supply Co., 1-1 $\frac{1}{4}$ "		
galv. cross .....	\$0.60	
To 60% discount .....	.36	
	<hr/>	.24
Pike & Heald Co., couplings, etc.....	72.59	
	<hr/>	\$1,111.01
By new machinery:		
A. B. Black, Boston, Mass., 1 macadam road scraper,		\$200.00
By repairs:		
Buffalo Steam Roller Co., scraper brackets .....	\$7.50	
The S. P. Dodge Co., wagon repairs....	8.30	
Good Roads Machinery Co., repairs to crusher .....	31.41	
American Locomotive Co., repairs to boilers .....	31.50	
Ingersoll-Rand Co., repairs to steam drills .....	293.40	
The Sessions Foundry Co., scrapers for mud scraper .....	22.68	
Drew Machinery Agency, repairs to pulley, etc .....	6.35	
	<hr/>	\$401.14
By Valley cemetery wall and fence from curb line east side of cemetery entrance gate northerly:		
Gedeon Lariviere, labor building forms for concrete wall .....	\$106.00	
Pike & Heald Co., 2-rail iron pipe fence on wall .....	137.82	
The J. H. Mendell Co., lumber for concrete forms .....	100.06	
	<hr/>	\$343.88

By freight and demurrage:		
Boston & Maine Railroad.....		\$1,069.65
By repairs of concrete:		
(See Engineer's Department, Tables 1, 2, 3, 4, 5)....		\$467.92
By miscellaneous charges:		
Manchester Traction, Light & Power Co., electricity and labor .....	\$32.94	
Albert Brown, labor.....	.50	
American Express Co., express on yoke for steam roller .....	7.65	
John H. Campbell, use of water .....	3.00	
		<hr/>
		\$44.09
By labor:		
Payroll Division No. 2.....	\$21,502.31	
Payroll Division No. 4.....	284.12	
Payroll Division No. 5.....	751.98	
Payroll Division No. 7.....	3,517.78	
Payroll Division No. 8.....	50.00	
Payroll Division No. 9.....	1,533.36	
Payroll Division No. 10.....	10,573.94	
		<hr/>
		\$38,213.49
		<hr/>
		\$49,123.27
To appropriation for repairs of highways...		\$49,200.00
G. D. Hebert, chopping block.....	1.00	
Fred Walker, ½ ton crushed ledge stone,	.50	
Charles Hadley, labor.....	2.47	
William Leonaïse, wood.....	.50	
E. C. Smith, Supt. Valley cemetery, stone and gravel .....	29.50	
Hutchinson Building Co., cement and stone .....	9.85	
William H. Bowker, labor .....	8.65	
Manchester Street Railway, labor .....	3.50	
John A. Lindquist, stone.....	2.00	
Estate Edward Wagner, labor.....	4.60	
W. C. Wilson, labor .....	3.12	
Valley cemetery, material and labor building concrete wall with two-rail iron pipe fence on east side of Valley cemetery east curb line, building con- crete wall under fence from main en- trance northerly, furnishing and set- ting curbing Pine street west side, Au- burn street to entrance gate.....	1,173.05	
By balance unexpended .....		\$1,319.97
	<hr/>	<hr/>
	\$50,443.24	\$50,443.24

## REPAIRING STREETS.

## (16) NORTH ADAMS STREET—Carpenter Street Northerly.

Patched with ashes:

Number of loads of ashes, 23.

Labor of men ..... \$34.70

Labor of teams ..... 31.50

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\$66.20

## (141) NORTH ADAMS STREET—Clarke Street Northerly.

Top dressed with granite:

Number of loads of gravel, 8.

Number of tons of granite, 82.

Cost of gravel ..... \$0.80

Cost of granite ..... 82.00

Coal ..... 3.70

Labor of men ..... 74.37

Labor of teams ..... 49.50

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\$210.37

Began September 23, finished September 28.

Length, 1,400 feet.

Width, 28 feet.

Square yards, 4,355.

Cost per lineal foot, \$0.15.

Cost per square yard, \$0.048.

## (142) AINSWORTH AVENUE.

Top dressed with gravel:

Number of loads of gravel, 36.

Cost of gravel ..... \$3.60

Labor of men ..... 17.50

Labor of teams ..... 13.50

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\$34.60

Began September 21, finished September 22.

Length, 450 feet.

Width, 16 feet.

Square yards, 800.

Cost per lineal foot, \$0.077.

Cost per square yard, \$0.043.

(390) AMHERST STREET—Ash Street to Maple Street. ASH STREET—  
Amherst Street to Concord Street. CONCORD STREET—  
Ash Street to Maple Street.

Patched with granite:

	Distance.	Square yards.
Amherst, Ash to Maple.....	320	880
Ash, Amherst to Concord .....	300	1,066
Concord, Ash to Maple .....	330	953
	<hr/> 960	<hr/> 2,899



Number of tons granite, 14.		
Cost of granite .....	\$14.00	
Coal .....	1.25	
Labor of men .....	\$8.60	
Labor of teams .....	4.50	
	<u>13.10</u>	
		\$28.35

## (17-18) AMHERST STREET—Vine Street to Pine Street.

Patched with granite:

Number of tons of granite, 40.		
Cost of granite.....	\$40.00	
Coal .....	1.25	
Labor of men .....	48.61	
Labor of teams .....	24.74	
	<u>114.60</u>	
		\$114.60

## (19) AMORY STREET—Main Street to Rimmon Street.

Patched with granite:

Number of tons of granite, 130.		
Cost of granite .....	\$130.00	
Coal .....	1.24	
Labor of men .....	90.11	
Labor of teams .....	121.50	
	<u>342.85</u>	
		\$342.85

Began August 3, finished August 8.

Length, 300 feet.

Width, 26 feet.

Square yards, 866.

Cost per lineal foot, \$1.143.

Cost per square yard, \$0.396.

## (20) AMORY STREET—Montgomery Street to Laval Street.

Patched with clay:

Number of loads of clay, 52.		
Cost of clay .....	\$5.20	
Coal .....	.49	
Labor of men and teams .....	63.50	
	<u>69.19</u>	
		\$69.19

## (181) AMORY STREET—East Side Between Montgomery Street and Laval Street. (Sidewalk.)

Filled with ashes:

Number of loads of ashes, 46.		
Labor of men .....	\$36.12	
Labor of teams .....	18.00	
	<u>54.12</u>	
		\$54.12

Began December 7, finished December 12.

Length, 250 feet.

Width, 8 feet.

Square yards, 222.

Cost per lineal foot, \$0.216.

Cost per square yard, \$0.243.

(303) ASH STREET—Pearl Street to Orange Street.

Grading and leveling street in front of Gale Home:

Labor of men .....	\$27.00
Labor of teams .....	10.12

                      
\$37.12

(357) ASHLAND STREET—Corner Concord Street.

Patched with granite:

Number of tons of granite, 4.

Cost of granite .....	\$4.00
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Labor of men .....	1.75
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Labor of teams .....	2.25
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\$8.00

Began November 30, finished same day.

(139-140) AUBURN (WEST) STREET—Elm Street to Franklin Street.

Top dressed with granite:

Number of tons of granite, 60.

Cost of granite .....	\$60.00
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Coal .....	3.70
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Labor of men .....	58.75
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Labor of teams .....	40.50
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\$162.95

Began October 28, finished October 31.

Length, 220 feet.

Width, 28 feet.

Square yards, 684.

Cost per lineal foot, \$0.740.

Cost per square yard, \$0.238.

(137-138) BATH STREET—Third Street to Turner Street.

Top dressed with ashes:

Number of loads of ashes, 171.

Coal .....	\$1.63
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Labor of men .....	163.87
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Labor of teams .....	110.25
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\$275.75

Began December 1, finished December 4.

Length, 420 feet.

Width, 26 feet.

Square yards, 1,213.

Cost per lineal foot, \$0.656.

Cost per square yard, \$0.227.

(134-136) BAY STREET—Clarke Street to Carpenter Street.

Top dressed with granite and ashes:

Number of loads of ashes, 94.

Number of tons of granite, 120.

Cost of granite .....	\$120.00
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Coal .....	7.39
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Labor of men .....	121.91
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Labor of teams .....	119.23
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\$368.53

Began June 30, finished July 13.

Length, 1,150 feet.

Width, 28 feet.

Square yards, 3,582.

Cost per lineal foot, \$0.320.

Cost per square yard, \$0.103.

(420) BEECH STREET—Near Salmon Street.

Drilling and blasting holes:

Labor .....	\$3.25
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This is charged to the M. T. L. & P. Co. and credit will appear in the 1909 report.

(438) BEECH STREET—Brown Avenue to Top of Hill.

Repairing street:

Labor of men .....	\$6.54
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Labor of teams .....	2.25
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\$8.79

Date of work, July 23.

(126-133) BEECH STREET—Silver Street to Shasta Street.

Top dressed with granite:

Number of tons of granite, 1,330.

Cost of granite .....	\$1,330.00
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Coal .....	29.58
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Labor of men .....	945.54
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Labor of teams .....	403.41
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\$2,708.53

Began July 18, finished September 17.

Length, 1,300 feet.

Width, 30 feet.

Square yards, 4,333.

Cost per lineal foot, \$2.083.

Cost per square yard, \$0.625.

(144-145) BELMONT STREET—Massabesic Street to Somerville Street.

Repaired with road machine and rolled:

Coal .....	\$5.00
Labor of men .....	100.98
Labor of teams .....	31.50

\$137.48

Began May 20, finished May 25.

(125) BLODGET STREET—Pine Street to Union Street.

Top dressed with granite and ashes:

Number of loads of ashes, 25.

Number of tons of granite, 30.

Cost of granite .....	\$30.00
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Coal .....	4.93
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Labor of men .....	62.50
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Labor of teams .....	40.50
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\$137.93

Began November 3, finished November 7.

Length, 450 feet.

Width, 28 feet.

Square yards, 1,400.

Cost per lineal foot, \$0.306.

Cost per square yard, \$0.098.

(54) BLODGET STREET HILL AND SAGAMORE STREET HILL.

Patched with gravel:

Number of loads of gravel, 107.

Cost of gravel .....	\$10.70
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Labor of men .....	66.68
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Labor of teams .....	42.75
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\$120.13

(411) BRIDGE (OLD) STREET.

Repairing street:

Coal .....	\$2.50
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Labor of men .....	27.50
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\$30.00

Began November 2, finished November 3.

(406) BROWN AVENUE—Near C. C. Webster Place.

Repairing street:

Labor of men .....	\$19.20	
Labor of teams .....	9.00	
		<hr/>
		\$28.20

Began March 18, finished March 20.

(410) CANAL STREET—West of R. G. Sullivan's New Factory.

Patching with ashes:

Labor of men .....	\$6.38	
Labor of teams .....	4.50	
		<hr/>
		\$10.88

Date of work, October 30.

(160-161) CANDIA ROAD—Mammoth Road to Portsmouth R. R.

Repaired with road machine and rolled:

Labor of men .....	\$204.26	
Labor of teams .....	99.25	
		<hr/>
		\$303.51

Began April 28, finished May 9.

(47-48) CANDIA ROAD—At Massabesic Street.

Top dressed with gravel:

Number of loads of gravel, 192.		
Cost of gravel .....	\$19.20	
Labor of men .....	166.50	
Labor of teams .....	58.50	
		<hr/>
		\$244.20

Length, 350 feet.

Width, 20 feet.

Square yards, 777.

Cost per lineal foot, \$0.698.

Cost per square yard, \$0.315.

(21) CARTIER STREET—Wayne Street to Sullivan Street.

Patched with clay:

Number of loads of clay, 26.		
Cost of clay .....	\$2.60	
Coal .....	.24	
Labor of men and teams .....	34.50	
		<hr/>
		\$37.34

(306) CEDAR STREET—Corner Union Street.

Repairing street caused by break in sewer:

Two loads of stone from Chestnut street (no charge).

Labor of men .....	\$3.50
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Date of work, August 10.

(115-116) CEDAR (WEST) STREET—Elm Street to Franklin Street.

Top dressed with granite:

Number of tons of granite, 44.	
Cost of granite .....	\$44.00
Coal .....	3.70
Labor of men .....	45.14
Labor of teams .....	31.50
	<hr/>
	\$124.34

Began October 24, finished October 27.

Length, 220 feet.

Width, 27 feet.

Square yards, 660.

Cost per lineal foot, \$0.565.

Cost per square yard, \$0.188.

(425) CENTRAL STREET—Corner Canal Street.

Patching where street had been dug up:

2½ tons trap rock .....	\$3.22
Coal .....	.62
Labor of men .....	\$6.00
Labor of teams .....	2.25
	<hr/>
	8.87
	<hr/>
	\$12.71

Date of work, November 28.

This is charged to the People's Gas-Light Company and credit will appear in 1909 report.

(368) CENTRAL (WEST) STREET—At Canal Street.

Removing earth in street in front of R. G. Sullivan's new factory:

Labor of men .....	\$5.25
Labor of teams .....	4.50
	<hr/>
	\$9.75

Date of work, November 2.

(302) CENTRAL (WEST) STREET—Corner Canal Street.

Patching street due to new cesspool:

Number of tons trap rock, 4½.	
Cost of trap rock .....	\$5.85
Labor of men .....	6.00
Labor of teams .....	2.25
	<hr/>
	\$14.10

Date of work, November 28.



(117-124 and 370-371) CHESTNUT STREET—Harrison Street to Webster Street.

Top dressed with trap rock:

Number of tons of trap rock, 816.		
Cost of trap rock .....	\$1,060.80	
Coal .....	59.16	
Labor of men .....	\$724.05	
Labor of teams .....	389.69	
	<u>1,113.74</u>	
		\$2,233.70
Unloading 20 cars crushed stone (June 6 to June 30):		
Labor of men .....	\$98.98	
Labor of teams .....	111.37	
	<u>210.35</u>	
		<u>\$2,444.05</u>

Began June 3, finished August 8.

Length, 2,800 feet.

Width, 28 feet.

Square yards, 8,711.

Cost per lineal foot, \$0.872.

Cost per square yard, \$0.28.

(102-112) CHESTNUT STREET—Merrimack Street to Auburn Street.

Top dressed with trap rock and granite:

Number of tons of trap rock, 572.		
Number of tons of granite, 226.		
Cost of trap rock .....	\$737.88	
Cost of granite .....	226.00	
Coal .....	41.51	
Tarvia .....	328.50	
Labor of men and teams .....	1,187.50	
	<u>\$2,521.39</u>	

Began July 30, finished September 10.

Length, 1,570 feet.

Width, 24 feet.

Square yards, 4,187.

Cost per lineal foot, \$1.606.

Cost per square yard, \$0.602.

(50) CHESTNUT STREET—At High Street.

Patched with trap rock:

Number of tons of trap rock, 6.		
Cost of trap rock .....	\$7.74	
Coal .....	.62	
Labor of men .....	7.11	
Labor of teams .....	3.00	
	<u>\$18.47</u>	

Date of work, November 2.

(152-153) CILLEY ROAD—Hall Street Westerly. Hall Street Easterly.

Repaired with road machine:

Labor of men .....	\$244.55	
Labor of teams .....	81.00	
		<hr/>
		\$325.55

Began June 8, finished June 20.

(113-114) CLINTON STREET—South Main Street to West Street.

Top dressed with granite:

Number of tons of granite, 228.		
Cost of granite .....	\$228.00	
Coal .....	2.18	
Labor of men .....	261.37	
Labor of teams .....	166.50	
		<hr/>
		\$658.05

Began November 22, finished November 31.

Length, 525 feet.

Width, 26 feet.

Square yards, 1,517.

Cost per lineal foot, \$1.253.

Cost per square yard, \$0.434.

(143) COHAS AVENUE—Reservoir to Pumping Station.

Turnpiked with road machine:

Labor of men .....	\$73.94	
Labor of teams .....	22.50	
		<hr/>
		\$96.44

Began June 1, finished June 3.

(419) COHAS JUNCTION PARK.

Rolling ball grounds:

Labor of teams .....	\$10.12
June 23 and 24.	

This is charged to the M. T. L. & P. Co., and credit will appear in the 1909 report.

(24) CONANT STREET—Main Street to Montgomery Street.

Patched with clay:

Number of loads of clay, 30.		
Cost of clay .....	\$3.00	
Coal .....	.28	
Labor of men and teams .....	28.50	
		<hr/>
		\$31.78

## (22) CONCORD STREET—Vine Street to Pine Street.

## Patched with granite:

Number of tons of granite, 36.	
Cost of granite .....	\$36.00
Coal .....	5.00
Labor of men .....	34.99
Labor of teams .....	20.25
	<hr/>
Began October 23, finished October 26.	\$96.24

## (392) CONCORD STREET—Corner Hall Street.

## Repairing macadam:

Number of tons of granite, 6.	
Cost of granite.....	\$6.00

## Repairing sidewalk on Elm street:

Number of tons of granite, 7.	
Cost of granite .....	7.00
Labor of men .....	\$3.05
Labor of teams .....	4.50
	<hr/>
	7.55
	<hr/>
	\$20.55

Date of work, December 4.

## (94) CONCORD STREET—Ashland Street to Hall Street.

## Top dressed with granite:

Number of tons of granite, 120.	
Cost of granite .....	\$120.00
Coal .....	2.46
Labor of men .....	83.00
Labor of teams .....	35.00
	<hr/>
	\$240.46
Length, 600 feet.	
Width, 18 feet.	
Square yards, 1,200.	
Cost per lineal foot, \$0.40.	
Cost per square yard, \$0.20.	

## (25) COOLIDGE AVENUE—Kelley Street to Bremer Street.

## Patched with clay:

Number of loads of clay, 38.	
Cost of clay .....	\$3.80
Coal .....	.36
Labor of men and teams .....	45.00
	<hr/>
	\$49.16

(151) DIX STREET—Hall Street Westerly. HOWE STREET—Hall Street  
Westerly.

Turnpiked:

Labor of men .....	\$25.00	
Labor of teams .....	9.00	
		\$34.00

Date of work, June 20.

(95-97) DOVER STREET—Clinton Street to Douglas Street.

Top dressed with granite:

Number of tons of granite, 142.		
Cost of granite .....	\$142.00	
Coal .....	1.36	
Labor of men .....	269.37	
Labor of teams .....	150.75	
		\$563.48

Date of work, October 12 to October 17, inclusive. November 19 to  
November 21, inclusive.

Length, 425 feet.

Width, 24 feet.

Square yards, 1,133.

Cost per lineal foot, \$1.325.

Cost per square yard, \$0.497.

(23) DUBUQUE STREET—Wayne Street to Bremer Street.

Patched with clay:

Number of loads of clay, 42.		
Cost of clay .....	\$4.20	
Coal .....	.40	
Labor of men and teams .....	61.50	
		\$66.10

(98-99) DUBUQUE WEST BACK STREET—Bremer Street Southerly.

Top dressed with ashes:

Number of loads of ashes, 46.		
Coal .....	\$0.44	
Labor of men .....	74.12	
Labor of teams .....	22.50	
		\$97.06

Began December 9, finished December 11.

Length, 275 feet.

Width, 16 feet.

Square yards, 489.

Cost per lineal foot, \$0.353.

Cost per square yard, \$0.198.

## (301) ELM STREET—Hollis Street Southerly.

Patched with granite:

Number of tons of granite, 5.	
Cost of granite .....	\$5.00
Labor of men .....	4.50
Labor of teams .....	2.25
	<hr/>
	\$11.75
Date of work, August 29.	

## (359) ELM STREET—Corner Valley Street. At Head &amp; Dowst Co.'s Crossing.

Patched with granite:

Number of tons of granite, 8.	
Cost of granite .....	\$8.00
Labor of men .....	3.80
Labor of teams .....	2.25
	<hr/>
	\$14.05
Date of work, June 18.	

## (304) ELM STREET—At Valley Street.

Patched with gravel and cinders:

Number of loads of cinders, 1.	
Number of loads of gravel, 8.	
Cost of gravel .....	\$0.80
Labor of men .....	5.25
Labor of teams .....	4.50
	<hr/>
	\$10.55
Date of work, August 7.	

## (394-396) ELM STREET—Driveway for G. E. Gould.

Hauling stone from ledge to Gould's:

Labor of men .....	\$5.25
Labor of teams .....	15.75
	<hr/>
	\$21.00

Number of tons of granite, 29.

Cost of granite .....	29.00
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Rolling driveway:

Coal .....	\$10.00
Labor of men .....	24.50
	<hr/>
	34.50

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\$84.50

Began June 12, finished July 1.

Credit for this work will appear in 1909 report, together with a charge for use of roller.

(431) FRANKLIN STREET—Depot Street Northerly About 100 Feet.

Repairing street:

Coal .....	\$0.62	
Labor of men .....	6.00	
Labor of teams .....	2.25	
		<hr/>
		\$8.87

Date of work, November 14.

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(307) FRANKLIN STREET—Corner of Granite Street.

Patching macadam:

Number of tons of trap rock,  $\frac{1}{2}$ .

Cost of trap rock .....	\$0.65	
Coal .....	.14	
Labor of men .....	1.13	
Labor of teams .....	.50	
		<hr/>
		\$2.42

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(92-93) FRANKLIN STREET—Granite Street to West Cedar Street.

Top dressed with trap rock:

Number of tons of trap rock, 164.

Cost of trap rock .....	\$211.56	
Coal .....	9.86	
Labor of men .....	163.43	
Labor of teams .....	43.37	
		<hr/>
		\$428.22

Began October 3, finished October 16.

Length, 300 feet.

Width, 30 feet.

Square yards, 1,000.

Cost per lineal foot, \$1.427.

Cost per square yard, \$0.428.

(100-101) FERRY STREET—Third Street to Turner Street.

Top dressed with ashes:

Number of loads of ashes, 56.

Coal .....	\$0.53	
Labor of men .....	96.00	
Labor of teams .....	58.50	
		<hr/>
		\$155.03

Began December 16, finished December 18.



Length, 396 feet.  
 Width, 28 feet.  
 Square yards, 1,232.  
 Cost per lineal foot, \$0.391.  
 Cost per square yard, \$0.126.

(90-91) FOURTH STREET—M. & N. W. R. R. Northerly.

Top dressed with ashes:

Number of loads of ashes, 64.	
Coal .....	\$0.62
Labor of men .....	92.50
Labor of teams .....	45.00
	<hr/>
	\$138.12

Began December 19, finished December 21.

Length, 100 feet.

Width, 24 feet.

Square yards, 266.

Cost per lineal foot, \$1.381.

Cost per square yard, \$0.519.

(1-10) FRONT STREET—Amoskeag Street to Black Brook.

Top dressed with trap rock:

Length, 2,600 feet.

Width, 21 feet.

Square yards, 6,066.

(1-10) AMOSKEAG STREET—Amoskeag Bridge to Front Street.

Top dressed with trap rock:

Length, 370 feet.

Width, 28 feet.

Square yards, 1,151.

Amoskeag street, Front street, and Goffstown road were all done as one job and the cost record will show under heading of Goffstown road.

(1-10) GOFFSTOWN ROAD—Front Street Westerly.

Top dressed with trap rock:

Length, 200 feet.

Width, 22 feet.

Square yards, 489.

Number of tons of trap rock, 2,259.76.

Cost of trap rock ..... \$2,912.68

Labor of men ..... \$215.20

Labor of teams ..... 116.12

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\$331.32

Labor of men (charged to macadamizing) .....	\$1,846.60	
Labor of teams (charged to macadamizing) .....	821.78	
		\$2,668.38
Coal .....		21.73
		<hr/>
		\$8,193.87

Began June 9, finished August 29.

Total length, 3,170 feet.

Total square yards, 7,706.

Cost per lineal foot, \$2.585.

Cost per square yard, \$1.063.

(427) GRANITE STREET—Elm Street to Canal Street.

Repairing macadam:

Number of tons of trap rock, $\frac{1}{4}$ .	
Cost of trap rock.....	\$0.32
Coal .....	.35
Labor .....	4.60
	<hr/>
	\$5.27

Date of work, October 16.

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(430) GRANITE STREET—Corner Franklin Street.

Repairing macadam:

Number of tons of granite, $\frac{1}{2}$ .	
Cost of granite .....	\$0.50
Coal .....	.30
Labor .....	3.55
	<hr/>
	\$4.35

Date of work, October 17.

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(32) HALL STREET—Corner Central Street.

Patched with granite:

Number of tons of granite, 8.	
Cost of granite .....	\$8.00
Coal .....	.63
Labor of men .....	9.35
Labor of teams .....	4.50
	<hr/>
	\$22.48

Date of work, November 30.

## (154) HALL STREET—Dix Street to Cilley Road.

Repaired with road machine:

Labor of men .....	\$23.24	
Labor of teams .....	18.00	
	<hr/>	\$41.24

Began June 17, finished June 18.

## (14-15) HANOVER STREET—Pine Street to Union Street.

Top dressed with granite:

Number of tons of granite, 24.		
Cost of granite .....	\$24.00	
Coal .....	3.70	
Labor of men .....	36.30	
Labor of teams .....	15.75	
	<hr/>	\$79.75

Began October 7, finished October 9.

Length, 500 feet.

Width, 24 feet.

Square yards, 1,333.

Cost per lineal foot, \$0.159.

Cost per square yard, \$0.059.

## (408) HARRISON STREET—Between Linden and Hall Street.

Repairing street:

Labor of men .....	\$2.75	
Labor of teams .....	2.25	
	<hr/>	\$5.00

Date of work, May 16.

## (365) HARRISON STREET—Linden Street to Hall Street.

Cutting down street to grade.

## LINDEN STREET—Harrison Street Southerly.

Filling in street to grade:

Labor of men .....	\$16.87	
Labor of teams .....	10.50	
	<hr/>	\$27.37

Began October 2, finished October 3.

## (157) HAYWARD STREET—Riley Avenue to Porter Street.

Repairing street:

Labor of men .....	\$49.12	
Labor of teams .....	4.50	
	<hr/>	\$53.61

Began June 28, finished June 30.

(168-169) HOLLY AVENUE—Taylor Street Easterly. Taylor Street  
Westerly.

Turnpiked:

Labor of men .....	\$28.87	
Labor of teams .....	9.00	
		<hr/>
Began May 25, finished May 26.		\$37.87

(407) HOOKSETT ROAD.

Repairing street:

Labor of men .....	\$2.99	
Labor of teams .....	2.25	
		<hr/>
Date of work, April 30.		\$5.24

(170-171) HUSE ROAD—Mammoth Road Southerly.

Repaired with road machine:

Labor of men .....	\$35.95	
Labor of teams .....	13.50	
		<hr/>
Began June 15, finished June 17.		\$49.45

(50) KELLEY STREET—Notre Dame Avenue to Rimmon Street.

Patched with clay:

Number of loads of clay, 78.		
Cost of clay .....	\$7.80	
Coal .....	.74	
Labor of men and teams .....	85.50	
		<hr/>
		\$94.04

(440) LAKE AVENUE—Pine Street to Union Street.

Repaired and rolled:

Coal .....	\$0.62	
Labor of men .....	6.88	
Labor of teams .....	4.50	
		<hr/>
Date of work, September 8.		\$12.00

(26) LAKE AVENUE—Lincoln Street Easterly.

Patched with granite:

Number of tons of granite, 20.		
Cost of granite .....	\$20.00	
Coal .....	5.00	
Labor of men .....	40.60	
Labor of teams .....	25.87	
		<hr/>
Began October 5, finished October 8.		\$91.47

## (53) LAKE AVENUE—Beech Street to Maple Street.

Patched with granite:

Number of tons of granite, 2.	
Cost of granite .....	\$2.00
Coal .....	1.25
Labor of men .....	12.05
Labor of teams .....	4.50
	<hr/>
	\$20.80

Date of work, October 1.

## (162-165) LAKE SHORE ROAD—Proctor Road to Island Pond Road.

Repaired with road machine:

Labor of men .....	\$186.67
Labor of teams .....	67.50
	<hr/>
	\$254.17

Began June 3, finished June 24.

## (85-89) LAUREL STREET—Chestnut Street to Wilson Street.

Top dressed with granite and ashes:

Number of loads of ashes, 289.	
Number of loads of gravel, 60.	
Number of tons of granite, 566.	
Cost of gravel .....	\$6.00
Cost of granite .....	566.00
Coal .....	41.51
Labor of men .....	613.82
Labor of teams .....	469.85
	<hr/>
	\$1,697.18

Began May 11, finished June 2.

Length, 3,090 feet.

Width, 28 feet.

Square yards, 9,613.

Cost per lineal foot, \$0.549.

Cost per square yard, \$0.176.

## (297) LONDONDERRY TURNPIKE—North of Candia Road at Guy E. Atwell's.

Setting 68 feet edge-stone and 1 hitching post:

Labor of men .....	\$9.25
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## (51) LOWELL STREET—Corner Chestnut Street.

Patched with trap rock:

Number of tons of trap rock, 48.	
Cost of trap rock .....	\$61.92
Coal .....	2.50
Labor of men .....	33.05
Labor of teams .....	20.25
	<hr/>
	\$117.72

Began October 19, finished October 22.

## (390) LOWELL STREET—Malvern Street to Ashland Street.

Patched with granite and gravel:

Number of tons of granite, 10.

Number of loads of gravel, 2.

Cost of granite ..... \$10.00

Cost of gravel ..... .20

Labor of men ..... \$6.97

Labor of teams ..... 4.50

11.47

\$21.67

Date of work, December 2.

## (11-13) MAIN STREET—Putnam Street to South of Conant Street.

(East side of track.)

Top dressed with trap rock:

Number of tons of trap rock, 452.

Cost of trap rock ..... \$596.63

(West side of track.)

Patched with granite:

Number of tons of granite, 80.

Cost of granite ..... \$80.00

Coal ..... \$5.10

Labor of men ..... 508.16

Labor of teams ..... 344.25

857.51

\$1,534.14

Began October 1, finished October 30.

(East side of track.)

Length, 1,870 feet.

Width, 10½ feet.

Square yards, 2,182.

(West side of track.)

Length, 1,870 feet.

Width, 3 feet.

Square yards, 623.

Total square yards, 2,805.

Cost per lineal foot, \$.082.

Cost per square yard, \$.547.

## (28-29) MAIN (SOUTH) STREET—Mast Street to Milford Street.

Patched with granite:

Number of tons of granite, 76.

Cost of granite ..... \$76.00

Coal ..... .72

Labor of men ..... 124.75

Labor of teams ..... 85.50

\$286.97

Began November 4, finished November 7.



Length, 325 feet.  
 Width, 12 feet.  
 Square yards, 433.  
 Cost per lineal foot, \$0.883.  
 Cost per square yard, \$0.662.

## (49) MAMMOTH ROAD—At Oakland Avenue.

Top dressed with cinders:

Number of loads of cinders, 35.		
Labor of men .....	\$34.19	
Labor of teams .....	13.50	
		<hr/>
		\$17.69

Began April 27, finished April 28.

## (149-150) MAMMOTH ROAD—Lake Avenue Southerly.

Repairing street:

Labor of men.....	\$42.69	
Labor of teams.....	9.00	
		<hr/>
		\$51.69

## (158-159) MAMMOTH ROAD—Reservoir Northerly.

Repaired with road machine and rolled:

Coal .....	\$8.75	
Labor of men .....	213.49	
Labor of teams .....	40.50	
		<hr/>
		\$262.74

Began May 11, finished May '19.

## (358) MANHATTAN LANE—Between Cedar Street and Auburn Street.

Repairing street due to cave-in of sewer:

Labor of men .....	\$2.00
Date of work, October 12.	

## (437) MAPLE STREET—Between Howe Street and C. &amp; P. R. R. Tracks.

Putting shavings on street:

Number of loads of shavings, 10.	
Labor of men.....	\$2.50
Labor of teams .....	4.50
	<hr/>
	\$7.00

Date of work, October 23.

## (441) MAST STREET—From 100 Feet West of South Main Street West-erly.

Treated with Tarvia:

38 bbls. Tarvia "B" @ \$3.75.....	\$142.50
39 loads sand @ 10c.....	3.90
	<hr/>
	\$146.40

Labor of men .....	\$130.75	
Labor of teams .....	27.00	
		<hr/>
		\$157.75
		<hr/>
		\$304.15

Began September 2, finished September 15.

Length, 1,950 feet.

Width, 28 feet.

Square yards, 6,066.

Cost per lineal foot, \$0.156.

Cost per square yard, \$0.05.

(300) MAPLE STREET—Corner Auburn Street.

Patched with gravel and stone:

3 loads of gravel and stone from Chestnut street (no charge).

Labor of men .....	\$7.38	
Labor of teams .....	3.37	
		<hr/>
		\$10.75

Date of work, August 10.

(369) MARKET STREET—Elm Street Westerly.

Tearing out and hauling away crossing stones:

Labor of men .....	\$5.67	
Labor of teams .....	3.37	
		<hr/>
		\$9.04

Date of work, May 26.

(428) MERRIMACK STREET—At No. 380 Merrimack Street.

Rolling street where gas pipe was put in:

Number of tons of granite, 2.

Cost of granite .....	\$2.00	
Coal .....	.30	
Labor of men .....	\$1.74	
Labor of teams .....	1.00	
		<hr/>
	2.74	
		<hr/>
		\$5.04

Date of work, October 12.

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(432) MERRIMACK STREET—At No. 236 Merrimack Street.

Patching street where gas pipe was put in:

Number of tons of granite, 2.

Cost of granite .....	\$2.00	
Coal .....	.30	
Labor of men .....	\$1.74	
Labor of teams .....	1.00	
		<hr/>
	2.74	
		<hr/>
		\$5.04

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.

(174) MERRIMACK STREET—Hanover Street Westerly.

Repaired with road machine:

Labor of men .....	\$11.77	
Labor of teams .....	6.75	
	<hr/>	\$18.52
Began October 2, finished October 3.		

(79-83) MERRIMACK STREET—Chestnut Street to Beech Street. Maple Street to Wilson Street.

Top dressed with trap rock and granite:

Number of tons of trap rock, 132.		
Number of tons of granite, 426.		
Cost of trap rock.....	\$170.28	
Cost of granite .....	426.00	
Coal .....	27.12	
Labor of men .....	392.50	
Labor of teams .....	240.75	
	<hr/>	\$1,256.65

Began April 27, finished May 11.

Length, 2,490 feet.

Width, 28 feet.

Square yards, 7,302.

Cost per lineal foot, \$0.504.

Cost per square yard, \$0.172.

(305) MERRIMACK SOUTH BACK STREET—CENTRAL STREET.

Patched with granite:

Number of tons of granite, 4.		
Cost of granite .....	\$4.00	
Labor of men .....	1.75	
Labor of teams .....	2.25	
	<hr/>	\$8.00
Date of work, August 8.		

(72-75) MAST ROAD—Mast Street Northerly.

Top dressed with granite:

Number of tons of granite, 90.		
Cost of granite .....	\$90.00	
Coal .....	5.50	
Labor of men .....	230.09	
Labor of teams .....	99.08	
	<hr/>	\$424.67

Began September 2, finished September 19.

Length, 200 feet.

Width, 25 feet.

Square yards, 1,111.

Cost per lineal foot, \$1.06.

Cost per square yard, \$0.38.

(298) NORTH STREET—Walnut Street to Liberty Street.

Patched with gravel:

Number of loads of gravel, 8.

Cost of gravel ..... \$0.80

Labor of men ..... 8.75

Labor of teams ..... 2.25

\$11.80

Date of work, August 8.

(27) NORTH STREET—Liberty Street to Union Street.

Patched with granite:

Number of tons of granite, 18.

Cost of granite ..... \$18.00

Coal ..... 2.50

Labor of men ..... 27.50

Labor of teams ..... 9.00

\$57.00

Began November 9, finished November 10.

(31) NOTRE DAME AVENUE—Kelley Street to Adams Street.

Patched with clay:

Number of loads of clay, 78.

Cost of clay ..... \$7.80

Coal ..... .74

Labor of men and teams ..... 140.50

\$149.04

(436) ORANGE SOUTH BACK STREET.

Patched with ashes:

Labor of men ..... \$3.50

Labor of teams ..... 4.50

\$8.00

Date of work, August 10.

(409) ORANGE STREET—Between Elm and Chestnut Street.

Repairing street:

Labor of men ..... \$2.12

Date of work, May 28.

## (84) ORANGE STREET—Union Street to Walnut Street.

Top dressed with granite:

Number of loads dirt, 20.

Number of tons of granite, 4.

Cost of granite ..... \$4.00

Coal ..... 2.46

Labor of men ..... 19.35

Labor of teams ..... 9.00

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\$34.81

Began October 19, finished October 23.

Length, 200 feet.

Width, 28 feet.

Square yards, 622.

Cost per lineal foot, \$0.174.

Cost per square yard, \$0.056.

## (146-147) PAGE STREET—Hanover Street to Candia Road.

Turnpiked and top dressed with cinders:

Labor of men ..... \$58.75

Labor of teams ..... 22.50

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\$81.25

Began May 28, finished May 29.

## (34) PEARL STREET—Linden Street to Ashland Street.

Patched with granite:

Number of tons of granite, 36.

Cost of granite ..... \$36.00

Coal ..... 2.50

Labor of men ..... 19.85

Labor of teams ..... 9.00

---

\$67.35

Began October 14, finished October 15.

## (35) PINE STREET—Concord Street to Lowell Street.

Patched with granite:

Number of tons of granite, 8.

Cost of granite ..... \$8.00

Coal ..... .62

Labor of men ..... 10.63

Labor of teams ..... 5.62

---

\$24.87

Began November 13, finished November 14.

## (66-71) PINE STREET—Central Street to Hanover Street.

Top dressed with trap rock:

Number of tons of trap rock, 622.

Cost of trap rock ..... \$808.60

Coal .....	\$24.65	
Tar .....	50.25	
Pitch .....	18.00	
Labor of men .....	504.16	
Labor of teams .....	261.99	
		<hr/>
		\$1,667.65

Began September 11, finished October 12.

Length, 1,060 feet.

Width, 24 feet.

Square yards, 2,827.

Cost per lineal foot, \$1.573.

Cost per square yard, \$0.589.

(367) PINE STREET—Corner Central Street.

Filling in old reservoir:

Labor of men ..... \$29.59

Date of work, September 11, 12, 14.

Pine street at this time was being macadamized and material for above filling was taken from the street.

(366) PINE STREET—Corner Monadnock Lane.

Digging up old reservoir:

Labor of men ..... \$11.00

Began September 19, finished September 21.

(426) PLEASANT STREET—Franklin Street to Elm Street. CENTRAL STREET—Canal Street to Elm Street. FRANKLIN STREET—Market Street to Middle Street.

Repairing macadam where Gas Co. had dug up street:

Number of tons of granite,  $\frac{1}{4}$ .

Cost of granite ..... \$0.25

Labor ..... 8.75

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\$9.00

Date of work, October 17 and 19.

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report.

(44-46) PUTNAM STREET—Culvert at Dump.

Concrete culvert:

64 tons of granite ..... \$64.00

21 loads of sand ..... 5.25

300 bags Atlas Portland cement ..... 141.75

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\$211.00

1 manhole, 1,500 brick ..... \$13.50

1 manhole casting ..... 10.06

10 bags Atlas Portland cement ..... 4.73

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28.29



Labor of men .....	\$226.75	
Labor of teams .....	31.50	
		<hr/>
		\$258.25
		<hr/>
		\$497.54

Length of culvert, 162 feet.

Cost per lineal foot, \$3.071.

(32) RAILROAD STREET—Quincy Street Westerly.

Patched with clay:

Number of loads of clay, 27.

Cost of clay ..... \$2.70

Labor of men ..... 41.99

Labor of teams ..... 27.00

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\$71.69

Began October 4, finished October 10.

(33) RAILROAD STREET—Quincy Street Easterly.

Patched with clay:

Number of loads of clay, 52.

Cost of clay ..... \$5.20

Labor of men and teams ..... 78.00

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\$83.20

(36) RIMMON STREET—Kelley Street to Wayne Street.

Patched with clay:

Number of loads of clay, 40.

Cost of clay ..... \$4.00

Coal ..... .38

Labor of men and teams ..... 54.50

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\$58.88

(418) RIVER ROAD—At Dr. French's Residence.

Rolling driveway:

Coal ..... \$2.50

Labor ..... 5.37

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\$7.87

This is charged to Mack Bros., and credit will appear in 1909 report, together with a charge for use of roller.

(72-75) ROCHELLE AVENUE—Mast Street Southerly.

Top dressed with granite:

Number of tons of granite, 56.

Cost of granite ..... \$56.00

Coal ..... 2.50

Labor of men ..... 97.01

Labor of teams ..... 35.92

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\$191.43

Began September 2, finished September 19.

Length, 200 feet.

Width, 16 feet.

Square yards, 355.

Cost per lineal foot, \$0.957.

Cost per square yard, \$0.539.

(76) SAGAMORE STREET—Chestnut Street to Walnut Street.

Top dressed with granite:

Number of tons of granite, 140.

Cost of granite .....	\$140.00
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Coal .....	8.63
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Labor of men .....	90.05
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Labor of teams .....	91.00
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\$329.68

Began June 18, finished June 30.

Length, 960 feet.

Width, 28 feet.

Square yards, 2,986.

Cost per lineal foot, \$0.343.

Cost per square yard, \$0.11.

(412) SALMON STREET—Corner Union Street. Corner Walnut Street.

Patching crossings:

Number of loads of ashes, 9.

Labor of men .....	\$12.00
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Labor of teams .....	9.00
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\$21.00

Date of work, November 6.

(299) SALMON (WEST) STREET. CLARKE STREET—Corner Chestnut Street.

Patching with gravel:

Number of loads of gravel, 6.

Cost of gravel .....	\$1.20
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Labor of men .....	6.50
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Labor of teams .....	4.50
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\$12.20

Date of work, August 10.

(37) SCHOOL STREET—Third Street to Turner Street.

Patched with granite:

Number of tons of granite, 76.

Cost of granite .....	\$76.00
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Coal .....	.72
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Labor of men and teams .....	58.50
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\$135.22

## (77-78) SECOND STREET—School Street to South of Walker Street.

Top dressed with granite:

Number of tons of granite, 304.

Cost of granite .....	\$304.00
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Coal .....	2.92
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Labor of men .....	174.93
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Labor of teams .....	184.50
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\$666.35

Began November 9, finished November 14.

Length, 780 feet.

Width 26 feet.

Square yards, 2,253.

Cost per lineal foot, \$0.854.

Cost per square yard, \$0.295.

## (38) SULLIVAN STREET—Main Street to Notre Dame Avenue.

Patched with clay:

Number of loads of clay, 38.

Cost of clay .....	\$3.80
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Coal .....	.36
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Labor of men and teams .....	48.50
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\$52.66

## (39) SULLIVAN STREET—Notre Dame Avenue to Cartier Street.

Patched with clay:

Number of loads of clay, 22.

Cost of clay .....	\$2.20
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Coal .....	.20
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Labor of men and teams .....	28.50
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\$30.90

## (172-173) TAYLOR STREET—Vinton Street Northerly.

Turnpiked:

Labor of men .....	\$30.25
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Labor of teams .....	9.00
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\$39.25

Date of work, May 27.

## (405) TITUS AVENUE—Beech Street Westerly.

Repairing street:

Labor of men .....	\$7.85
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Labor of teams .....	4.50
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\$12.35

Date of work, March 17.

## (64-65) TURNER STREET—School Street to Walker Street.

Top dressed with ashes:

Number of loads of ashes, 290.

Coal ..... \$2.78

Labor of men ..... 187.50

Labor of teams ..... 112.50

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\$302.78

Began December 23, finished December 28.

Length, 950 feet.

Width, 26 feet.

Square yards, 2,744.

Cost per lineal foot, \$0.318.

Cost per square yard, \$0.11.

(417) UNION STREET—Corner Orange Street. Corner Orange South  
Back Street.

Patching street:

Coal ..... \$0.60

Labor of men ..... 3.69

Labor of teams ..... 1.50

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\$5.79This is charged to the N. E. T. & T. Co., and credit will appear in  
1909 report, together with a charge for use of roller.

## (439) UNION STREET—Webster Street Northerly.

Digging out rocks from street:

Labor of men ..... \$17.44

Labor of teams ..... 1.12

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\$18.56

Began July 14, finished July 16.

## (399) UNION (NORTH) STREET.

Drilling for post holes:

2 quarts oil ..... \$0.35

1 box 5/16" Garlock packing ..... 1.50

Sharpening drills ..... 2.00

Labor of men ..... 17.50

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\$21.35

Began December 2, finished December 4.

This is charged to the M. T. L. & P. Co., and credit will appear in  
1909 report.

## (40-41) UNION STREET—Clarke Street Northerly.

Patched with granite:

Number of tons of granite, 14.

Cost of granite ..... \$14.00

Coal ..... 2.50

Labor of men .....	\$33.50	
Labor of teams .....	11.25	
	<hr/>	\$61.25
Date of work, July 9, 10, 20.		

(57-63) VALLEY STREET—Maple Street to Wilson Street.

Top dressed with trap rock:

Number of tons of trap rock, 482.		
Cost of trap rock .....	\$649.01	
Coal .....	30.00	
Labor of men .....	563.55	
Labor of teams .....	110.25	
	<hr/>	\$1,352.81

Began October 6, finished December 11.

Length, 1,260 feet.

Width, 15 feet.

Square yards, 2,100.

Cost per lineal foot, \$1.073.

Cost per square yard, \$0.644.

(166-167) VINTON STREET—Jewett Street to Wilson Street.

Turnpiked:

Labor of men .....	\$15.91	
Labor of teams.....	4.50	
	<hr/>	\$20.41
Date of work, May 26.		

(364) WALNUT STREET HILL—North of Salmon Street.

Taking out rocks, grading, and rolling:

Coal .....	\$3.75	
Labor of men .....	28.72	
Labor of teams .....	11.25	
	<hr/>	\$43.72

Began October 27, finished October 29.

(55-56) WAYNE STREET—Main Street to Notre Dame Avenue.

Top dressed with granite:

Number of tons of granite, 278.		
Cost of granite .....	\$278.00	
Coal .....	2.67	
Labor of men .....	89.24	
Labor of teams .....	101.25	
	<hr/>	\$471.16

Began July 22, finished August 31.

Length, 350 feet.

Width, 26 feet.

Square yards, 1,011.

Cost per lineal foot, \$1.346.

Cost per square yard, \$0.466.

## (42) WAYNE STREET—Notre Dame Avenue to Cartier Street.

Patched with clay:

Number of loads of clay, 48.		
Cost of clay.....	\$4.80	
Coal .....	.46	
Labor of men and teams .....	51.50	
		<hr/>
		\$56.76

## (155-156) WELLINGTON AVENUE—Bridge Street Extension to London-derry Turnpike.

Repairing street:

Labor of men .....	\$33.75	
Labor of teams .....	4.50	
		<hr/>
		\$38.25

Date of work, June 25.

## (43) WEST STREET—Granite Street to Clinton Street.

Patched with clay:

Number of loads of clay, 40.		
Cost of clay .....	\$4.00	
Coal .....	.38	
Labor of men and teams .....	58.00	
		<hr/>
		\$62.38

## (296) WESTLAND AVENUE—Gully on Daniel Ahern's Farm Near Highway.

Filling in culvert to a height so that water will run through culvert under Westland Avenue:

Labor of men .....	\$41.60	
Labor of teams .....	21.00	
		<hr/>
		\$62.60

Began June 2, finished June 4.

The necessity of doing this work resulted from the culvert not being built at a depth sufficient to drain gully. Stagnant water on other side. City blamable.

## (429) WILSON STREET.

Patching street where gas main was put in:

Number of tons of granite, 8.		
Cost of granite .....	\$8.00	
Coal .....	1.25	
Labor of men .....	\$7.85	
Labor of teams .....	4.50	
		<hr/>
		12.35
		<hr/>
		\$21.60

This is charged to the People's Gas-Light Co., and credit will appear in 1909 report, together with a charge for use of roller.



## (148) YOUNG STREET—Mammoth Road Westerly.

Repaired with road machine:

Labor of men .....	\$19.75	
Labor of teams .....	9.00	
		<hr/>
Date of work, May 23.		\$28.75

## STONE CRUSHING PLANTS.

## (188-191) WILSON HILL LEDGE.

Hauling stone from Derryfield Park. (This stone was taken out in excavation when the high service reservoir was built and was left scattered on the ground in Derryfield Park around the reservoir.)

Dates, January 13 to February 1, inclusive.

Labor of men.....	\$545.41	
Labor of teams .....	349.86	
		<hr/>
		\$895.27

Fuel used, old bridge plank.

Number of loads hauled to crusher, 639.

Number of tons hauled to crusher (estimate), 958.

Cost per ton for hauling and crushing (estimate), \$0.934.

No. 3 stone, about 200 tons.

No. 2 stone, about 450 tons.

No. 1 stone, about 150 tons.

Dust, about 158 tons.

(185-187)

Dates, May 21 to June 5.

Setting up trench machine over quarry so as to deliver stone at crusher without use of teams.

Labor of men .....	\$73.25	
Labor of teams .....	22.37	
		<hr/>
		\$95.62

Dates, May 12 to July 12.

Labor of men ..... \$1,702.97 |  |Labor of teams ..... 183.87 |  |Dynamite and coal (estimated) ..... 75.00 |  |

---

1,861.84

---

\$1,957.46

To July 1, 1,725 one-horse loads hauled from bins and dumped (estimated), tons .....

1,725

87 two-horse loads hauled out from bins and dumped (estimated), tons .....

120

Stone spilled from No. 2 bin over east end of bins (estimated), tons .....

200

July 1 to July 12, 912 one-horse loads hauled from bins and dumped (estimated), tons .....

912

Estimated (tons) in bins .....

268

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3,225

Cost of stone at crusher (approximate), per ton, \$0.60.

Total cost of running crusher for year, \$2,848.35.

Total amount of stone produced at crusher, 4,183 tons.

Cost per ton (approximate), \$0.66.

(No depreciation or repairs figured in cost per ton as there are no scales at plant and weights are estimated by measurements.)

Dust, tons (estimated), 420.

No. 1 stone, tons (estimated), 627.

No. 2 stone, tons (estimated), 230.

No. 3 stone, tons (estimated), 836.

(350) SOUTH ELM STREET.

This crusher was not operated this year.

Cleaning and overhauling:

Labor of men .....	\$3.29	
Labor of teams .....	1.75	
		<hr/>
		\$5.04

(442-443) ROCHELLE AVENUE.

Portable crusher run by electric motor, derrick run by steam hoisting engine.

August 3 to August 22, inclusive.

Setting up crusher, derrick and hoister:

Labor of men .....	\$277.15	
Labor of teams .....	22.50	
		<hr/>
		\$299.65

(444-448)

Running crusher:

September 1 to 17, inclusive.

October 21 to 29, inclusive.

Labor of men .....	\$982.54	
Labor of teams .....	166.50	
		<hr/>
		\$1,149.04
Coal (3 tons @ \$5.00) .....		15.00
		<hr/>
		\$1,164.04

The crusher was run twenty-four (24) days with a daily output of about 100 loads per day. Gravel, sand and boulders were excavated and run through the crusher.

Total output of sand and dust (estimated), tons.....	1,560
Total output of stone, Nos. 1 and 2 mixed (estimated), tons .....	2,448
Total output of stone, No. 3 (estimated), tons.....	612
	<hr/>
Total output (estimated), tons .....	4,620

Cost of running crusher at Wilson Hill, \$2,848.35.

Total output for year at Wilson Hill (estimated), 4,183 tons.

Cost of running crusher at Rochelle avenue, \$1,164.04.

Total output for year at Rochelle avenue (estimated), 4,620 tons.

Total cost of running both crushers for year, \$4,012.39.

Total output for year at both crushers (estimated), 8,803 tons.

Cost per ton for stone at Wilson Hill crusher (approximate), \$0.66.

Cost per ton for stone at Rochelle avenue crusher (approximate), \$0.25.

Average cost per ton at both crushers (approximate), \$0.455.

Loading teams at Rochelle avenue gravel bank:

September 24 to 31, inclusive.

Labor of men ..... \$139.24

Labor of teams ..... 36.00

\$175.24

#### STREET CLEANING.

Scraping macadam streets and paved gutters with mud scraper, taking up and hauling to dumps (177-178):

Dates, April 8, 9, 10, 11.

	Loads.
Streets not listed .....	18
Streets not listed .....	25
Chestnut street .....	38
Franklin street .....	5
Granite street .....	7
Chestnut, Prospect to Brook .....	13
Hanover, Pine to Union .....	11
Union, Manchester to Merrimack .....	3
	<u>120</u>

Labor of men ..... \$86.29

Labor of teams ..... 57.00

\$143.29.

Date, April 18, 1908. (175-176)

	Distance.	Square yards.	Loads.
Pine, Hanover to Prospect .....	2,650	8,622	48
Labor of men .....		\$27.87	
Labor of teams .....		29.24	
		<u>\$57.11</u>	

Cost per square yard, \$0.0066.

Scraping macadam streets, cleaning gutters and cleaning cesspools (179-180):

Dates, April 24, 25, 27, 28, 29, 30.

	Distance.
Cedar, Elm to Union .....	1,430
Central, Elm to Beech .....	1,970
Concord, Vine to Union .....	1,150

	Distance.
Merrimack, Chestnut to Beech .....	1,350
Pine, Hanover to Central .....	1,016
Pine, Spruce to Auburn .....	490
	<hr/>
	7,406

Total number cesspools cleaned, 52.

Number of loads hauled to dumps, 215.

Total square yards cleaned, 27,159.

Labor of men ..... \$157.58

Labor of teams ..... 90.41

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\$247.99

Cost per square yard, \$0.0091.

Scraping macadam streets, cleaning gutters and cleaning cesspools  
(182-184):

Dates, May 1, 2, 4, 5, 6, 7, 8, 9.

	Distance.	Loads.
Auburn, Elm to Maple .....	2,600	67
Beech, Auburn to Harrison .....	5,200	44
Cedar, Union to Maple .....	1,120	25
Chestnut, Brook to Webster .....	2,300	48
Hanover, Beech to Hall .....	2,360	50
Laurel, Chestnut to Union .....	800	21
Merrimack, Maple to Lincoln .....	540	18
	<hr/>	<hr/>
	14,920	273

Number of cesspools cleaned, 153.

Total square yards cleaned, 56,195.

Labor of men ..... \$234.04

Labor of teams ..... 131.62

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\$365.66

Cost per square yard, \$0.0065.

Dates, May 11, 12, 13, 14, 15, 16 (261-262):

	Distance.	Square yards.	Loads.
Cedar, Beech to Lincoln .....	1,180	4,458	9
Central, Union to Hall .....	2,900	10,311	52
Laurel, Union to Maple .....	1,120	3,733	19
Lincoln, Cedar to Amherst .....	2,130	7,573	30
Maple, Auburn to Lowell .....	3,050	10,844	33
Pine, Prospect to Webster .....	3,010	10,702	70
Spruce, Pine to Wilson .....	2,880	10,240	53
Wilson, Lake avenue to Merrimack ..	710	1,893	11
Stark street, Elm to Hampshire Lane	100	422	2
Mechanic street, Elm to Hampshire Lane .....	100	422	2
	<hr/>	<hr/>	<hr/>
	17,180	60,598	281

Number of cesspools cleaned, 129.

Labor of men ..... \$219.45

Labor of teams ..... 119.86

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\$339.31

Cost per square yard, \$0.0056.

Dates, July 13, 14, 15, 16, 17, 18, 20 (280 and 351):

	Distance.	Square yards.	Loads.
Arlington, Nashua to Ashland.....	850	3,022	4
Ashland, Hanover to Pearl.....	2,180	7,266	32
Harrison, Russell to Linden.....	400	1,333	2
High (East), Buzzell to Jane.....	1,030	3,662	9
Jane, East High to Nashua .....	250	694	4
Linden, Bridge to Myrtle.....	1,080	3,617	8
Malvern, East High to Lowell .....	350	933	9
Manchester, Hall to Chestnut .....	3,750	12,283	45
Morrison, Arlington to Pearl.....	300	1,000	1
Myrtle, Linden to Oak.....	840	2,986	6
Nashua, Pearl to Bridge.....	380	886	5
Oak, Orange to Pearl.....	260	924	4
Orange, Oak to Hall.....	1,610	5,724	14
Russell, Bridge to Harrison.....	1,570	5,199	11
Union, Appleton to Carpenter.....	2,050	9,111	27
Walnut, Amherst to Pearl .....	1,600	5,688	14
Warren, Bridge to Pearl.....	450	1,200	1
Sweepings on Elm street.....			19
	18,950	65,528	215
Labor of men .....		\$147.59	
Labor of teams.....		63.00	
			\$210.59

Cost per square yard, \$0.0032.

Dates, July 22 and 23 (281-282):

	Distance.	Square yards.	Loads.
Bridge, Maple to Beacon.....	2,750	6,444	12
High (East), Maple to Beacon.....	2,700	10,200	25
Concord, Maple to Beacon.....	2,550	6,800	
Amherst, Maple to Beacon.....	2,550	6,800	
	10,550	30,244	37
Number of cesspools cleaned, 16.			
Labor of men .....		\$51.80	
Labor of teams .....		18.00	
			\$69.80

Cost per square yard, \$0.0022.

Cleaning cesspools (283-284):

Dates, August 10, 11, 12, 13, 14.

Number of cesspools cleaned, 140.

Number of loads, 128.

Labor of men .....	\$117.88
Labor of teams.....	65.00

\$182.88

## Scraping gutters (285):

Date, September 5.

Number of loads, 20.

Labor of men ..... \$17.85

Labor of teams ..... 9.00

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\$26.85

## Taking up leaves from gutters on Union street (286):

Date, October 3.

Number of loads, 5.

Labor of men ..... \$7.38

Labor of teams ..... 4.50

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\$11.88

## Sweeping up and removing leaves (287):

Dates, October 5 and 6.

Loads.

Pine and Walnut streets ..... 7

Merrimack, Central and Union streets..... 4

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11

Labor of men ..... \$17.02

Labor of teams ..... 6.75

---

\$23.77

## Cleaning up and taking away dirt (288):

Date, October 22.

Loads.

Spruce street at St. Augustine's church ..... 2

Merrimack south back street corner Pine street at Polish  
church ..... 4

Hanover and Lincoln streets ..... 4

Merrimack, Beech to Maple ..... 1

---

11

Labor of men ..... \$8.85

Labor of teams ..... 4.50

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\$13.35

## Scraping gutters and picking up dirt:

Date, October 26.

Loads.

West Central street ..... 2

Labor of men ..... \$3.50

Labor of teams ..... 2.25

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\$5.75

## Scraping streets, cleaning gutters and cleaning cesspools (290):

Dates, October 27, 28, 29.

Distance.

Square yards.

Loads.

Grove, Pine to Beech..... 970 3,664 8

Central, Chestnut to Franklin ..... 1,240 4,960 9

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2,210 8,624 17

Labor of men ..... \$22.77

Labor of teams ..... 10.25

---

\$33.02

Cost per square yard, \$0.0038.



## Hoeing out gutters (291):

Date, October 31.		Loads.
Grove street .....		19
Green street .....		2
Pine, Green to Bell .....		6
		<hr/>
		27
Labor of men .....	\$17.85	
Labor of teams .....	4.50	
	<hr/>	\$22.35

## Scraping streets and cleaning gutters (292):

Dates, November 24, 25.

	Distance.	Square yards.	Loads.
Brown avenue, Elm to Hancock.....	520	1,962	21
Labor of men .....		\$16.00	
Labor of teams .....		6.75	
		<hr/>	\$22.75

Cost per square yard, \$0.0115.

Date, November 30. (293)

	Distance.	Square yards.	Loads.
Chestnut, Bridge to Harrison.....	1,380	4,600	12
Labor of men .....		\$9.53	
Labor of teams .....		5.62	
		<hr/>	\$15.15

Cost per square yard, \$0.0035.

Date, December 1. (294)

	Distance.	Square yards.	Loads.
Chestnut, Bridge to Harrison.....	1,380	4,600	10
Pearl, Chestnut to Union.....	800	2,666	10
	<hr/>	<hr/>	<hr/>
	2,180	7,266	20
Labor of men .....		\$11.25	
Labor of teams .....		9.00	
		<hr/>	\$20.25

Cost per square yard, \$0.0027.

Dates, December 2, 3, 4, 5 (295).

	Distance.	Square yards.	Loads.
Ash, Lowell to Bridge.....	680	2,418	3
Bridge, Walnut to Union.....	220	977	1
Concord, Union to Ash.....	750	2,083	4
Lowell, Walnut to Maple .....	850	3,022	5
Orange, Chestnut to Beech.....	1,330	4,433	10
Pearl, Pine to Ash .....	1,230	4,100	7
Porter avenue, Amherst to Concord..	400	977	5
Union, Lowell to Orange .....	1,200	4,266	12
Walnut, Pearl to Lowell.....	930	3,306	3
	<hr/>	<hr/>	<hr/>
	7,590	25,582	50
Labor of men .....		\$52.00	
Labor of teams .....		36.00	
		<hr/>	\$88.00

Cost per square yard, \$0.0034.

## Hoing gutters and patching holes in street (352):

Date, August 20.

Number of loads, 13.

Labor of men ..... \$12.06

Labor of teams ..... 3.37

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\$15.43

## Cleaning up Market street in front of city hall (353):

Date, October 1.

Labor of men ..... \$7.33

Labor of teams ..... 4.50

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\$11.83

## Taking up leaves on North Elm street, Franklin street, and Granite street (354):

Dates, October 23 and 24.

Labor of men ..... \$11.62

Labor of teams ..... 6.75

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\$18.37

## Cleaning up street at east side of Valley cemetery (355):

Date, November 2.

Labor of men ..... \$9.10

Labor of teams ..... 4.50

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\$13.60

## Taking away dirt in rear of R. G. Sullivan's new factory and putting same on Langdon street (356):

Date, November 14.

Labor of men ..... \$6.25

Labor of teams ..... 7.87

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\$14.12

## Cleaning crossings Division No. 10 (360-361):

Labor, May ..... \$20.50

Labor, June ..... 127.37

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\$147.87

## Picking stones from roads (362-363):

Labor, May ..... \$67.37

Labor, June ..... 73.87

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141.24

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\$289.11

## Cleaning up West Central south back street in rear of R. G. Sullivan's new factory (397):

Labor of men ..... \$13.52

Labor of teams ..... 18.00

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\$31.50

Date of work, November 18 and 19.

Dates, May 18, 19, 20, 21 (263-264):

	Distance.	Square yards.	Loads.
Granite, Elm to Canal.....	400	1,600	5
Monroe, Elm to River road.....	560	1,483	13
Spring, Elm to Hampshire lane.....	100	400	2
Union, Lowell to Webster.....	4,800	18,166	83
Water, Elm to Hampshire lane.....	100	400	2
Webster, Chestnut to Beech.....	1,330	4,729	40
Webster (West), Elm to River road..	660	2,053	13
	7,950	28,829	158

Number of cesspools cleaned, 96.

Labor of men ..... \$134.71

Labor of teams ..... 65.25

\$199.96

Cost per square yard, \$0.0069.

Dates, May 22, 23, 25, 26, 27, 28, 29 (265-267):

	Distance.	Square yards.	Loads.
Bridge, Elm to Nashua.....	2,920	12,977	59
Concord, Pine to Derry.....	2,380	6,611	33
Elm, Langdon to Carpenter.....	5,000	37,777	140
Lowell, Elm to Maple.....	2,600	9,244	47
Pearl, Elm to Ash .....	2,200	7,333	37
Webster, Elm to Chestnut.....	560	1,991	17
	15,660	75,933	333

Number of cesspools cleaned, 185.

Labor of men ..... \$278.51

Labor of teams ..... 145.47

\$423.98

Cost per square yard, \$0.0055.

Date, June 5, 1908 (268):

	Distance.	Square yards.	Loads.
Bridge, Russell to Webster.....	2,500	8,888	23
Number of cesspools cleaned, 16.			
Labor of men .....		\$17.07	
Labor of teams .....		6.88	
			\$23.95

Cost per square yard, \$0.0027.

Dates, June 1, 2, 3, 4, 5, 6, 8, 9, 10 (269-271):

	Distance.	Square yards.	Loads.
Amherst, Beech to Hall.....	2,360	6,293	33
Appleton, Elm to Union.....	1,370	4,871	32
Birch, Bridge to Lowell.....	420	1,493	7
Bridge (West), Elm to Canal.....	650	2,888	16
Chestnut, North to Webster.....	580	1,933	13
Elm, Auburn to Valley.....	1,300	9,822	14
Elm, Orange to Langdon.....	900	6,800	9
Granite, Elm to Canal.....	400	1,600	2

	Distance.	Square yards.	Loads.
Hall, Lake avenue to Central.....	220	904	4
Lake avenue, Chestnut to Belmont..	4,100	14,577	78
Laurel, Lincoln to Hall.....	1,120	3,733	13
Liberty, North to Webster.....	600	2,000	15
Maple, Merrimack to Lake avenue..	710	2,524	2
North, Liberty to Bay.....	850	3,022	16
Orange, Elm to Ash .....	2,200	7,333	37
Salmon, Elm to Chestnut .....	560	1,991	16
Silver, Lincoln to Wilson.....	610	2,304	7
Washington, Elm to Birch.....	280	622	3
Wilson, Lake avenue to Valley.....	2,100	5,600	50
Wilson, Manchester to Merrimack..	250	666	8
	21,580	80,976	375

Number of cesspools cleaned, 195.

Labor of men ..... \$356.14

Labor of teams ..... 155.37

\$511.51

Cost per square yard, \$0.0063.

Date, June 15, 1908 (272):

	Distance.	Square yards.	Loads.
Linden, Bridge to Arlington.....	200	533	4
Warren, Bridge to Pearl .....	460	1,226	6
Bridge, Hall to Russell.....	1,200	4,266	17
	1,860	6,025	27

Number of cesspools cleaned, 12.

Labor of men..... \$17.95

Labor of teams ..... 9.00

\$26.95

Cost per square yard, \$0.0044.

Dates, June 11, 12, 13, 15, 16, 17, 18, 19, 20 (273-274):

	Distance.	Square yards.	Loads.
Amherst, Hall to Milton.....	550	1,466	5
Beacon, Hanover to Lake avenue....	1,500	4,000	8
Belmont, Lake avenue to Lowell....	2,880	10,240	22
Calef road, Welch avenue to Baker..	650	2,166	6
Central, Hall to Cass.....	1,600	4,266	12
Elm, Valley to Brown avenue.....	1,950	9,533	104
Elm, Brown avenue to Baker.....	1,200	8,000	
Elm avenue, Elm to Calef road.....	320	711	8
Hall, Manchester to Hanover.....	230	613	2
Hancock, Brown avenue westerly....	1,000	3,555	7
Hanover, Hall to Highland.....	1,850	8,222	28
Lake avenue, Belmont to J. Hall road,	2,670	8,752	27
Laurel, Hall to Cass.....	1,600	4,266	15
Manchester, Hall to Beacon.....	850	2,361	13
Merrimack, Maple to Beech.....	600	2,133	4

	Distance.	Square yards.	Loads
Merrimack, Hall to Milton.....	550	1,650	8
Milton, Hanover to Lake avenue....	1,250	3,333	6
Valley, Elm to Willow.....	220	831	3
Welch avenue, Elm to Calef road....	330	733	9

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	21,800	76,831	287
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Number of cesspools cleaned, 196.

Labor of men ..... \$311.55

Labor of teams ..... 76.50

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 \$388.05

Cost per square yard, \$0.0055.

Dates, June 22, 23, 24, 25, 26, 27, 30 (275-276):

	Distance.	Square yards.	Loads.
Buzzell, Bridge to East High.....	270	720	3
Chestnut, Cedar to Lake avenue....	490	1,633	24
Concord, Belmont to Derry.....	1,300	3,466	15
Dutton, Concord to Amherst .....	430	955	8
Grove, Pine to Union.....	430	1,529	9
High (East), Beacon to Buzzell.....	1,100	3,911	6
Lowell, Maple to Beacon .....	2,550	9,066	55
Malvern, Concord to Lowell .....	300	800	5
Maple, Bridge to Lowell.....	600	2,133	9
Nashua, Bridge to Concord.....	1,140	3,420	17
Pearl, Oak to Morrison.....	1,350	4,800	22
Pine, Grove to Valley .....	490	1,742	19
Pine, Cedar to Auburn.....	220	733	7
Valley, Pine to Wilson.....	2,880	10,880	20
From cesspools (scattered).....			14

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	13,550	45,788	233
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Number of cesspools cleaned, 171.

Labor of men ..... \$217.92

Labor of teams ..... 58.50

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 \$276.42

Cost per square yard, \$0.0060.

Dates, July 1, 2, 3, 6, 7, 8, 9, 10, 11 (277-279):

	Distance.	Square yards.	Loads.
Adams (North), Trenton to Webster,	2,920	9,733	19
Ash, Sagamore to Salmon.....	350	1,166	1
Ash, Concord to Bridge.....	1,330	4,729	14
Beech, Salmon to Blodget.....	840	3,173	10
Blodget, Walnut to Oak.....	1,100	4,155	7
Blodget, Chestnut to Pine.....	300	1,000	5
Brook, Oak to Chestnut .....	2,220	7,893	14
Carpenter, Elm to Union.....	1,350	4,500	7
Chestnut, Trenton to Clarke.....	1,690	5,633	25
Hall, Orange to High (East).....	1,250	4,444	16
Hanover, Chestnut to Union.....	800	2,844	6

	Distance.	Square yards.	Loads.
Hazel, Harrison to Brook.....	380	1,266	4
Maple, Blodget to Harrison.....	700	2,333	8
Maple, Bridge to Orange .....	580	2,062	3
Morrison, Arlington to Pearl.....	300	1,000	1
Myrtle, Elm to Chestnut .....	550	1,833	2
Pearl, Morrison to Belmont.....	570	1,900	8
Pennacook, Pine to Union.....	450	1,600	6
Prospect, Elm to Hall.*.....	4,500	16,000	42
Sagamore, Union to Ash .....	750	2,175	1
Salmon, Union to Beech.....	490	1,742	6
Union, Clarke to Carpenter.....	1,150	5,111	15
Walnut, Webster to Salmon.....	1,110	3,946	10
	<hr/>	<hr/>	
	25,680	90,238	
Sweepings from concrete.....			5
Number of cesspools cleaned, 233.			<hr/> 48
			283
Labor of men .....		\$288.86	
Labor of teams .....		120.36	
		<hr/>	\$409.22
Cost per square yard, \$0.0045.			

## REPAIRS OF FENCES.

June 16 (316):

Iron fence on Maple street, west side, Lowell southerly.

3 lbs. brimstone @ 8c..... \$0.24

Labor ..... 4.75

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\$4.99

June 15 (317):

Iron fence on Elm street, east side, between Appleton and Clarke.

4 lbs. brimstone @ 8c..... \$0.32

16 feet 1¼" pipe..... 1.46

1 cross T..... .17

Labor ..... 4.25

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\$6.20

June 17-18 (318):

Fence at west end of Amoskeag bridge.

50 lbs. brimstone @ 8c..... \$4.00

57 feet 1¼" pipe..... 5.19

1 gal. kerosene ..... .10

Labor ..... 9.50

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\$18.79

July 6 (319):

Iron fence on Main west back street, Putnam northerly.

Brimstone ..... \$0.13

8 feet 10 inches of 1¼" iron pipe..... .80

Labor ..... 1.58

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\$2.51



October 3 (320):

Fence at end of South Elm street.

Labor .....	\$2.26
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Fence on Union, near Green (321):

Labor .....	\$0.88
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Division No. 10, November 2, 3, 4, 5, 6, 7, 9, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30 and 31:

	No. posts.	Boards.	No. of feet.
Second .....	44	41	597
Goffe .....	2	7	56
Boynton .....	25	54	469
South Main .....	1	5	48
Shirley Hill road .....	10	10	128
Mast road .....	29	24	352
Coolidge avenue .....	16	21	332
Amory .....			96
Straw road .....	20	20	346
Front .....	7	5	80
Dunbarton road .....	28	20	468
George .....	8	8	184
	<hr/> 190	<hr/> 215	<hr/> 3,156

190 posts @ 20c..... \$38.00

3,156 feet of boards @ \$23.50 per M..... 74.17

Labor of men ..... 104.12

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\$216.29

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\$251.92

## REPAIRS OF WASHOUTS.

(323)

February 17, Repairing washouts at south end caused by rain and thaw:

Labor of men .....	\$16.40
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Labor of team .....	13.50
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\$29.90

(324)

February 17, Repairing damage on hill caused by rain and thaw:

Labor of men .....	\$13.30
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Labor of teams .....	9.00
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\$22.30

(325)

Repairing damage on Valley street caused by rain and thaw:

Labor of men .....	\$5.31
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Labor of team.....	3.37
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\$8.68

(326-327)

February 18, 19, 24, 25, and 26:

Repairing washout at junction of Beech street and Brown avenue.

Labor of men ..... \$99.55

Labor of teams ..... 45.00

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\$144.55

(328)

July 25, Looking after streets in rain:

Labor of men ..... \$7.75

(329-330)

August 1, 3, 4, 5, and 6:

Repairing washouts and cleaning gutters.

Labor of men ..... \$117.12

Labor of teams ..... 27.00

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\$144.12

(331)

August 10, Repairing Hooksett road after heavy rains:

Labor of men ..... \$10.50

Labor of teams..... 4.50

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\$15.00

(332)

September 29 and 30:

Repairing streets after rain.

Labor of men ..... \$12.25

Labor of teams ..... 13.50

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\$25.75

(333)

October 10, Rolling and sprinkling hills where stone and dust were used to fill in washouts:

Coal ..... \$1.25

Labor of men ..... 6.10

Labor of team ..... 4.50

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\$11.85

(334)

July 23, 24, 25, and 27:

Repairing washouts in streets.

	Tons granite.	Loads sand.
Manchester, between Maple and Lincoln.....	11	
Manchester south back, corner Maple.....	1	
Laurel south back, Union to Beech.....	4	
Pine and Auburn .....		1
Granite south back .....		1
Amherst, Lincoln to Maple .....	4	
Hubbard and Amherst (3 loads gravel).....	12	
Hanover, between Hall and Hubbard .....	8	
	<hr/> 40	<hr/> 2

Cost of granite .....	\$40.00	
Cost of sand .....	.20	
Cost of gravel .....	.30	
Labor of men .....	\$39.28	
Labor of teams .....	22.50	
	<hr/>	61.78
		<hr/>
		\$102.28

(335)

August 1 and 3:

Repairing washout at corner of Smyth road and Webster street.

10 loads of gravel.....	\$1.00	
Labor of men .....	\$14.10	
Labor of teams .....	6.75	
	<hr/>	20.85
		<hr/>
		\$21.85

(336-337)

August 5, 6, 7, and 8:

Patching holes in streets and cleaning gutters after rain.

202 tons granite .....	\$202.00	
Labor of men .....	73.12	
Labor of teams .....	49.50	
	<hr/>	
		\$324.62

(338)

August 6 and 7:

Patching after heavy rains.

		Loads gravel.
River road hill from Readey street south.....		8
River road from Clarke street south.....		5
Gravel from gutter used.		
Labor of men .....	\$25.36	
Labor of teams .....	15.74	
	<hr/>	
		\$41.10

(339)

August 6, 7, and 8:

Patching holes and cleaning gutters after heavy rains.

Cedar and Union.

Lincoln and Valley.

Valley, Lincoln to Wilson.

Silver, Lincoln to Wilson, 6 loads ashes and cinders.

Cleaned 8 cesspools.

Labor of men .....	\$24.80	
Labor of teams .....	13.50	
	<hr/>	
		\$38.30

(340)

August 10, Patching highways after rains:

		Tons of granite.
Orange .....		18
East High .....		14
Myrtle and Elm .....		4

		Tons. of granite.
Pearl .....		2
Kidder .....		6
Chester .....		4
		<hr/>
		48
Cost of granite .....	\$48.00	
Labor of men .....	20.00	
Labor of teams .....	13.50	
	<hr/>	\$81.50

(341)

August 14, Patching after heavy rains:

W. Salmon, 3 loads gravel.

River road, 8 tons granite.

Cost of gravel .....	\$0.30
Cost of granite .....	8.00
Labor of men .....	4.37
Labor of teams .....	4.50
Paid Chester Garland for care of lights on River road .....	1.25

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\$18.42

(342-343)

August 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, and 22:

Patching streets after rains.

	No. of tons of granite.
Milton .....	6
Beacon .....	4
Belmont .....	4
Pearl .....	8
Orange .....	8
Myrtle .....	8
Kidder .....	4
Hollis .....	2
Chester .....	30
Elm .....	4
Hall .....	24
Manchester .....	36
Ashland .....	24
Chester .....	6
East High .....	58
Bridge .....	20
Russell .....	32
Arlington .....	26
Alfred .....	4
Jane .....	2
Lake avenue, Union to Pearl.....	6

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316

Cost of granite .....	\$316.00	
Coal .....	10.00	
Labor of men .....	197.62	
Labor of teams .....	117.00	
		<hr/>
		\$640.62

(344)

September 29 and 30:

Patching and filling washouts on Bridge and Lowell street hills.

	No. tons granite.	
Buzzell .....	2	
Bridge .....	8	
Lowell .....	16	
		<hr/>
	26	
Cost of granite .....	\$26.00	
Labor of men .....	17.70	
Labor of teams .....	9.00	
		<hr/>
		\$52.70

(345)

August 6, 7, and 8:

Patching street after washouts caused by heavy rains.

Russell, Bridge to Myrtle.

Bridge, Russell to Hall.

Nashua and Arlington.

Orange and Oak.

10 one-horse loads of gravel used.

Cost of gravel .....	\$0.50	
Labor of men .....	45.49	
Labor of teams .....	7.00	
		<hr/>
		\$52.99

(346-347)

August 28, 29, and 31:

Patching highways to repair washouts.

	No. tons granite.	
Concord, Hall to Belmont .....	40	
Hills .....	48	
Elm and Pearl .....	6	
Belmont and Central and hills adjacent thereto.....	38	
		<hr/>
	132	
Cost of granite .....	\$132.00	
Coal .....	2.50	
Labor of men .....	58.00	
Labor of teams .....	43.86	
		<hr/>
		\$236.36

(348-349)

September 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 14, 15, and 16:

Patching highways to repair washouts.

	No. tons granite.
Belmont, Central to Laurel .....	46
Milton and Central .....	106
Central, Hall to Belmont .....	46
Central, Beacon to Milton .....	18
Merrimack, Beacon to Milton.....	30
Merrimack and Milton .....	20
Merrimack and Central .....	24
Hall and Merrimack .....	24
Manchester, Hall to Belmont.....	22
Linden and Pearl .....	6
	<hr/> 342
Cost of granite .....	\$342.00
Coal .....	7.50
Labor of men .....	282.00
Labor of teams .....	184.50
	<hr/> \$816.00

(435)

September 29.

Repairing washout on the west side of Brown avenue at Goffe's Falls:

Labor of men .....	\$1.75	
Labor of team .....	1.75	
	<hr/>	\$3.50
		<hr/>
		<hr/> \$3,940.12

This item (435) is charged to the M. T. L. & P. Co., and credit for the same appears under the financial account of Repairs of Highways.

## UNLOADING CARS.

(372)

June 23, at new City Yard:

3 carloads coal.	
1 carload brick.	
Labor of men .....	\$14.55

(373)

August 12.

1 car of fence boards and sewer bracing.	
Labor of men .....	\$3.50

(374)

August 26.

2 cars Tarvia (1 of A and 1 of B).

Labor of men .....	\$14.10
Labor of teams .....	13.50
	<hr/> \$27.10



(375)

October 8 and 9, At new City Yard:

2 cars No. 3 crushed stone.

Labor of men .....	\$6.30
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(376)

November 17 and 18.

1 carload of coal.

Labor of men .....	\$11.37
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Labor of teams .....	15.25
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\$26.62

(391)

December 12 and 14, At new City Yard:

Unloading No. 3 stone.

Labor of men .....	\$35.50
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## MISCELLANEOUS JOBS.

## BROWN AVENUE.

(403)

December 22, taking up two gas light posts (old):

Labor of men .....	\$1.41
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This is charged to Stanley K. Lovell and credit will appear in 1909 report, together with charge for posts.

## MONADNOCK LANE.

(402)

December 26.

Cleaning up in rear of Odd Fellows' block:

Labor of teams .....	\$2.25
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This is charged to F. A. Dockham and credit will appear in 1909 report.

## CITY HALL.

(401)

July 15.

Assisting Janitor Robitaille disentangle flags:

Labor of men .....	\$3.17
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This was done at request of city officials. (No charge.)

## MANCHESTER DRIVING PARK.

(400)

May 12 and 13.

Coal .....	\$1.25
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Labor of men .....	\$3.25
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Labor of teams .....	4.50
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8.75

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\$10.00

This is charged to the Manchester Driving club and credit will appear in 1909 report, together with a charge for use of roller.

## EAST HIGH STREET.

(434)

May 14 and 15, Removing stone from vacant lot:

Labor .....	\$2.47
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This is charged to Charles Hadley, agent, and credit appears under Repairs of Highways, financial.

## NEW CITY YARD.

(421)

Moving railroad ties:

Labor .....	\$9.05
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This is charged to the Manchester Street Railway and credit will appear in 1909 report.

(433)

November 20.

Bagging pea size stone and shipping to Goffstown:

45 cement bags @ 7½c.....	\$3.38
2.275 tons pea size stone @ \$1.50.....	3.41
Labor bagging and shipping stone.....	3.06

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\$9.85

This is charged to Hutchinson Building Co., Concord, N. H., and credit for same appears under Repairs of Highways, financial.

## TREES.

(377-379)

Trimming 4 dangerous trees.....	\$9.68
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Cutting down trees at the following locations:

(380)

Central south back street in rear of R. G.

Sullivan's new factory, 1 tree.....	6.41
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(381)

Elm street, west side, between Brook street and Langdon street, 2 trees.....

20.65

(382)

Spruce street in front of St. Augustine's church, 3 trees .....

13.00

(383)

Pine street, corner of Auburn street, 1 tree .....

3.50

(384)

Elm street, northeast corner Hanover street, 1 tree .....

21.42

(385)

Union street, west side, south of Lake avenue south back street, 1 tree.....

31.40

(386)

Elm street, southwest corner West Merrimack street, 1 tree.....

15.57

(387)

Walnut street, west side, between North street and Webster street, 1 tree.....	\$7.21
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(388)

Elm street, northwest corner Pleasant street, 1 tree .....	31.49
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 \$160.33

To be charged to abutters:

(389)

Lake avenue, north side, east of Beacon street (Byron Worthen) .....	\$3.55
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(413)

Wilson street, corner Central street (C. S. Fifield) .....	2.12
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(414)

Wilson street, corner Laurel street (J. P. Chatel) .....	1.26
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(415)

Pine street, corner Manchester street (no charge) complaint of building inspector	.84
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(416)

Bridge street, corner of Hall street (N. J. Whalen) .....	13.00
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 \$13.84

(393)

Lowell street, southwest corner Highland street. Cutting and burning brush on city lot:

Cutting brush .....	\$31.62
Burning brush .....	4.25

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 \$35.87

(422)

East High street at No. 376. Cutting down 5 trees:

March 11 and 12.

Labor of men .....	\$4.53
Labor of teams .....	4.12

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 \$8.65

This is charged to Wm. H. Bowker. Credit appears under Repairs of Highways financial.

(423)

Merrimack street at No. 156. Cutting down 1 tree:

March 6.

Labor .....	\$4.60
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This is charged to E. Wagner estate. Credit appears under Repairs of Highways, financial.

(424)

Clarke street, northwest corner Adams street. Hauling away brush from lot:

June 27.

Labor of men .....	\$0.87
Labor of teams .....	2.25

\$3.12

This is charged to W. C. Wilson. Credit appears under Repairs of Highways, financial.

## HAULING GRAVEL.

(398) Hauling gravel for repairing streets from Higgins' and Amoskeag banks:

August 21, 24 and 25.

	Loads.
Harrison, between Oak and Ash.....	16
Sagamore, Russell westerly .....	6
Sagamore, between Oak and Russell.....	11
Russell, corner Blodget .....	2
Harrison, between Oak and Maple.....	11
Russell, corner Sagamore .....	2
Brook, between Oak and Maple.....	6
Orange and Beech .....	4
Myrtle and Beech .....	3
Blodget, between Oak and Maple.....	6
	<u>67</u>
Labor of men .....	\$48.00
Labor of teams .....	27.00
	<u>\$75.00</u>

(404) Hauling gravel from Amoskeag bank at head of Russell street:  
August 31, September 1, 2, 3.

	Loads.
Belmont, East High to Lowell (44 loads used for filling sewer) .....	46
Belmont, Lowell to Concord.....	16
Pearl, Ashland to Linden.....	8
Ashland, East High to Concord.....	26
Lowell, corner Buzzell .....	1
East High, corner Buzzell .....	1
Buzzell, Lowell to East High.....	2
Lowell, Ashland to Malvern .....	18
	<u>118</u>

Three loads of stone from East High street sewer to ledge:

Labor of men .....	\$50.40
Labor of teams .....	31.50
	<u>\$81.90</u>

**Division No. 4.**

BYRON E. MOORE, AGENT.

All general repairs on roads and sidewalks have been made.

No new road has been built this year.

Repairs were made in this division by Division No. 2 and paid for under Division No. 2.

## EXPENDITURES.

Paid A. N. Nettle, 50 loads gravel.....	\$5.00	
labor of men and teams (as per payroll) .....	284.12	
		\$289.12

**Division No. 5.**

MARK E. HARVEY, AGENT.

The work in this division has been confined to making general repairs on highways where needed throughout the district, the road machine being used on nearly all work. Fences along the embankments were repaired.

All roads have been broken out after each snowstorm and kept in passable condition during the winter.

Brush along several of the highways has been cut.

## EXPENDITURES.

Paid Eugene Libbey, 127 loads gravel.....	\$12.70	
John Lovering, 47 loads gravel.....	4.70	
Oliver Merrill, 17 loads gravel.....	1.70	
labor of men and teams (as per payroll) .....	751.98	
		\$771.08

**Division No. 8.**

LEVI J. PROCTOR, AGENT.

The work this year has been in the way of general repairs on the various highways where needed.

All roads have been broken out after each snowstorm and kept in passable condition during the winter.

On June 22, 1908, this division was combined with Division No. 7, and from that date all work in this division has been under the supervision of Supt. Charles Francis.

## EXPENDITURES.

Labor of men and teams (as per payroll up to June 22, 1908) .....	\$50.00
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## Division No. 9.

LESTER C. PAIGE, AGENT.

The work in this division this year has been as follows:

Mammoth road, near the Londonderry line, was plowed and turnpiked for a distance of 120 rods.

Corning road, near Mosquito pond, was plowed and turnpiked for a distance of 57 rods.

Derry road, near the Londonderry line, was plowed and turnpiked for a distance of 50 rods.

Corning road, near Mosquito pond, was graveled for a distance of 135 rods. (The gravel for this work was taken from the city bank on Cohas avenue.)

Conant road, near Mosquito pond, was graveled for a distance of 44 rods. (The gravel for this work was taken from the city bank on Cohas avenue.)

Derry road was patched and repaired with gravel in various places for a distance of about 15 rods.

Conant road, near Mosquito pond, was cut down from 1 foot to three feet a distance of about 40 rods.

The bank in front of Mrs. Rickaby's place on Conant road was turfed over. (This was made necessary by cutting down Conant road.)

Two culverts on Corning road, next to the Harvey district, were taken up and relaid and two new culverts were built near Mosquito pond, one being 45 feet long and the other 80 feet long. Fifteen-inch Akron sewer pipe was used in both culverts. Also one cesspool was built and two manholes.

About 1,100 feet of gutters were paved on Corning road, near Mosquito pond.

In addition to the above work, general repairs were made on several of the highways throughout the district.

## EXPENDITURES.

Labor of men and teams (as per payroll).....	\$1,533.36
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### Board of Street and Park Commissioners in account with the Appropriation for New Highways.

By labor:

Payroll Division No. 10.....	\$41.50	
Payroll Division No. 7.....	504.39	
		\$545.89
To appropriation for new highways.....	\$4,000.00	
By balance unexpended .....		\$3,454.11
	\$4,000.00	\$4,000.00



## ITEMIZED OPERATIONS.

(489-490) CLAY STREET—Taylor Street Easterly.

Labor of men .....	\$172.28	
Labor of teams .....	72.00	
		<hr/>
		\$244.28
Began November 19, finished November 28.		
Length, 1,200 feet.		
Width, 30 feet.		
Square yards, 4,000.		
Cost per lineal foot, \$0.203.		
Cost per square yard, \$0.061.		

(491) SALISBURY STREET—Hanover Street Northerly.

Labor of men .....	\$81.26	
Labor of teams .....	23.60	
		<hr/>
		\$104.86
Began October 29, finished November 3.		
Length, 300 feet.		
Width, 20 feet.		
Square yards, 666.		
Cost per lineal foot, \$0.346.		
Cost per square yard, \$0.157.		

(492) YOUNG STREET—Taylor Street to Belmont Street.

Top dressed with cinders:		
Number of loads of cinders, 40.		
Labor of men .....	\$90.50	
Labor of teams .....	64.75	
		<hr/>
		\$155.25
Began November 28, finished December 18.		
Length, 200 feet.		
Width, 20 feet.		
Square yards, 444.		
Cost per lineal foot, \$0.776.		
Cost per square yard, \$0.349.		

### Board of Street and Park Commissioners in account with the Appropriation for Watering Streets.

By supplies:

John B. Varick Co., truck casters, bolts, hooks, etc. (for hose carriers).....	\$46.55
Pike & Heald Co., drinking cups, valves, nipples, etc. ....	55.95
W. E. Goodwin, 2 $\frac{3}{8}$ " gas cocks @ 45c....	.90

Augustus A. Dyer, scrap leather.....	\$0.75	
Sessions Foundry Co., 6 No. 399 drinking fountain basins, 50 lbs. @ \$0.0185.....	.93	
J. L. & H. K. Potter, 2 doz. valve stem washers .....	5.04	
Good Roads Machinery Company of Amer- ica, 3,740 gals. Terracolio (purchased in October, 1907) @ 16½c. per gal.....	617.10	
American Locomotive Co., hose connec- tions, nozzles, bar iron and boiler plate	18.00	
Cornelius Callahan Co., 1 2½" hose cap with slot (spray nozzle) .....	5.00	
Head & Dowst Co., lumber and labor....	1.65	
Globe Rubber Works, 500 ft. 2½" white jacket Fife hose, coupled, @ 60c. per foot..	\$300.00	
100 feet ¾" Prince hose @ 11½c. ....	11.50	
	<hr/> \$311.50	
To 2% discount for cash.....	6.23	
	<hr/> 305.27	
		\$1057.14
By paint:		
John B. Varick Co.....		\$132.64
By repairs:		
S. P. Dodge Co., pole, hub, spokes, and labor .....	\$10.80	
James Francoeur, tapping and heeling 4 pairs boots .....	4.00	
Drew Machinery Agency, labor tapping hydrant cap .....	.75	
	<hr/>	\$15.55
By freight:		
Boston & Maine railroad, on three carriage springs..		\$0.50
By ice:		
L. B. Bodwell & Co. (fountain Elm street near Granite street), 30,275 lbs. ice @ 15c. per cwt. ....	\$45.42	
Manchester Coal & Ice Co. (fountain Elm street, corner of W. Bridge street), 47,600 lbs. ice @ 15c. per cwt.....	71.41	
Maxwell Ice Co. (fountain Wayne street near Main street), 31,750 lbs. ice @ 15c. per cwt. ....	47.63	
	<hr/>	\$164.46

## By labor:

Payroll Division No. 2.....	\$4,638.91	
Payroll Division No. 10.....	1,096.24	
Payroll Division No. 7.....	1,038.34	
		<hr/>
		\$6,773.49
		<hr/>
		\$8,143.78
To appropriation for watering streets.....	\$7,000.00	
freight refunded city of Manchester on		
one carload of Terracolio.....	52.50	
overdraft .....	1,091.28	
		<hr/>
	\$8,143.78	\$8,143.78

## ITEMIZED OPERATIONS.

Sprinkling West Manchester during season,		
3 sprinklers .....	\$1,096.24	
Sprinkling East Manchester during season,		
3 sprinklers .....	1,038.34	
Sprinkling city (District No. 2) during sea-		
son, 9 sprinklers .....	4,114.01	
Repairs (780-786) .....	117.66	
Sprinkling streets at night with Terracolio		
(labor) (776) .....	9.75	
Flushing paved streets at night from May		
25 to July 15 (777-779) .....	397.49	
		<hr/>
		\$6,773.49

## STREET FLUSHING.—ONCE OVER.

LOCATION.	Limits.	Pavement.	Square yards.	Cost.
Elm.....	Orange to Auburn .....	Tar concrete and granite block .....	31,692	\$39.42
Bridge .....	Elm to Church .....	Tar concrete .....	676	1.06
Amherst .....	Vine to Elm .....	" .....	746	.88
" .....	Union to Walnut .....	" .....	586	.51
Concord .....	Vine to Elm .....	" .....	746	.85
Maple .....	Lake avenue to Merrimack .....	" .....	2,737	2.78
Merrimack .....	Maple to Beech .....	" .....	2,000	2.03
" .....	Chestnut to Franklin .....	" .....	3,072	2.68
Chestnut .....	Lowell to Merrimack .....	" .....	5,116	5.05
Hanover .....	Pine to Elm .....	" .....	3,306	3.31
" .....	Beech to Union .....	" .....	1,966	2.20
Nutfield Lane .....	Amherst to Monadnock lane .....	Tar concrete and block .....	1,089	1.00
Manchester .....	Chestnut to Elm .....	Tar concrete .....	2,026	1.99
Union .....	Lowell to Hanover .....	" .....	3,050	3.41
" .....	Merrimack to Lake avenue .....	" .....	2,565	2.64
Central .....	Elm to Manhattan lane .....	" .....	377	.55
Lake avenue .....	Chestnut to Elm .....	" .....	2,153	3.12
Pine .....	Central to Spruce .....	" .....	1,800	2.82
Granite .....	B. & M. R. R. to Granite bridge .....	Granite block .....	3,555	8.35
Average cost per square yard, \$0.0012.			69,259	\$94.65

STREET FLUSHING.—7.00 P. M. TO 12.00 P. M. AND 1.00 A. M. TO 5.00 A. M. (777-779)

LOCATION.	Limits.	Pavement.	Length.	Width.	Sq. yards.	No. of times.	Total square yards.	Labor of men.	Labor of team.	Total cost.	Cost per sq. yard.
Elm .....	Orange to Bridge .....	Tar concrete and granite block ..	620	68	4,684	1	4,684	\$6.42	\$0.87	\$7.29	\$0.0015
" .....	Bridge to Concord .....	Granite block .....	770	68	5,817	1	5,817	5.85	.80	6.65	.0011
" .....	Concord to Market .....	" .....	700	68	5,288	1	5,288	5.87	.53	6.40	.0008
" .....	Market to Central .....	" .....	975	68	7,366	1	7,366	5.19	.71	5.90	.0008
" .....	Central to Spruce .....	" .....	540	68	4,868	2	8,160	12.00	1.65	13.65	.0015
" .....	Spruce to Auburn .....	" .....	590	68	4,457	1	4,457	7.35	1.00	8.35	.0018
" .....	Orange to Stark .....	Tar concrete and granite block ..	1,830	68	13,826	2	27,652	21.58	8.12	29.70	.0010
" .....	Stark to Hanover .....	Granite block .....	210	68	1,586	1	1,586	7.35	1.00	8.35	.0052
" .....	Hanover to Merrimack .....	" .....	570	68	4,306	1	4,306	7.35	1.00	8.35	.0017
" .....	Merrimack to Lake avenue ..	" .....	770	68	5,817	1	5,817	7.35	1.00	8.35	.0014
" .....	Stark to Manchester .....	" .....	480	68	3,626	1	3,626	6.10	.83	6.93	.0019
" .....	Manchester to Central .....	" .....	800	68	6,044	1	6,044	6.35	1.00	7.35	.0012
" .....	Orange to Bridge .....	Tar concrete and granite block ..	620	34	2,342	1	2,342	3.03	.34	3.37	.0014
" .....	Orange to Spring .....	" .....	1,190	34	4,495	1	4,495	5.82	.66	6.48	.0014
" .....	Spring to Manchester .....	Granite block .....	1,120	68	8,462	1	8,462	7.10	1.00	8.10	.0009
" .....	Manchester to Lake avenue ..	" .....	1,070	68	8,084	1	8,084	6.14	.87	7.01	.0008
" .....	Orange to Amherst .....	Tar concrete and granite block ..	1,730	68	13,071	1	13,071	8.85	1.00	9.85	.0011
" .....	Amherst to Hanover .....	Granite block .....	310	68	2,342	1	2,342	2.44	.34	2.78	.0011
" .....	Hanover to Merrimack .....	" .....	570	68	4,306	1	4,306	3.37	.46	3.83	.0009
" .....	Orange to Amherst .....	Tar concrete and granite block ..	1,730	68	13,071	1	13,071	11.35	1.00	12.35	.0009
" .....	Amherst to Merrimack .....	Granite block .....	880	68	6,642	1	6,642	5.70	.80	6.50	.0009
" .....	Merrimack to Spruce .....	" .....	1,040	68	7,857	1	7,857	6.78	.95	7.73	.0009
" .....	Orange to Mechanic .....	Tar concrete and granite block ..	1,590	68	12,013	1	12,013	8.85	1.00	9.85	.0008
" .....	Mechanic to Pleasant .....	Granite block .....	1,270	68	9,595	1	9,595	5.85	.82	6.67	.0007
" .....	Depot to Auburn .....	" .....	890	68	6,724	1	6,724	7.10	1.00	8.10	.0012
Bridge .....	Elm to Church .....	" .....	145	42	676	1	676	1.93	.13	2.06	.0015
Amherst .....	Vine to Elm .....	Tar concrete .....	280	24	746	5	3,730	3.87	.53	4.40	.0011
" .....	Union to Walnut .....	" .....	220	24	586	5	2,930	2.27	.30	2.57	.0008
Concord .....	Vine to Elm .....	" .....	280	24	746	1	746	.75	.10	.85	.0011
Maple .....	Lake avenue to Merrimack ..	" .....	770	32	2,737	4	10,948	9.76	1.35	11.11	.0010
Merrimack .....	Maple to Beech .....	" .....	660	30	2,700	4	8,000	7.12	.99	8.11	.0010
" .....	Chestnut to Franklin .....	" .....	790	35	3,072	3	9,216	7.32	1.00	8.32	.0009
" .....	Elm to Franklin .....	" .....	220	36	840	3	2,640	.97	.28	1.25	.0005
" .....	Chestnut to Elm .....	" .....	570	34	2,153	2	4,306	3.81	.54	4.35	.0010

STREET FLUSHING.—7.00 P. M. TO 12.00 P. M. AND 1.00 A. M. TO 5.00 A. M. (777-779).—*Concluded.*

LOCATION.	Limits.	Pavement.	Length.	Width.	Sq. yards.	No. of times.	Total square yards.	Labor of men.	Labor of team.	Total cost.	Cost per sq. yard.
Chestnut.....	Lowell to Hanover.....	Tar concrete.....	915	29	2,948	2	5,896	\$6 24	\$0.85	\$7.09	\$0.0012
".....	Hanover to Merrimack.....	".....	620	34	2,342	2	4,684	6.56	.78	7.34	.0015
".....	Lowell to Merrimack.....	".....	1,535	30	5,116	2	10,232	7.81	1.07	8.88	.0008
".....	Lowell to Manchester.....	".....	1,240	30	4,133	1	4,133	2.85	.40	3.25	.0007
".....	Manchester to Merrimack.....	".....	995	34	1,114	1	1,114	1.09	.15	1.24	.0011
Hanover.....	Pine to Elm.....	".....	930	32	3,306	4	13,224	11.64	1.62	13.26	.0010
".....	Beech to Union.....	".....	590	30	1,966	7	13,762	13.62	1.81	15.43	.0011
".....	Chestnut to Elm.....	".....	570	32	2,028	1	2,028	1.98	.21	2.19	.0010
Nutfield lane.....	Manchester, northerly.....	Block and concrete.....	680	14	1,026	1	1,026	1.49	.19	1.59	.0015
".....	Amherst, southerly.....	Tar concrete.....	50	14	77	1	77	.09	.01	1.10	.0013
".....	Manchester to Amherst.....	Block and concrete.....	540	14	840	1	1,680	1.10	.15	1.25	.0007
".....	Amherst to Hanover.....	Tar concrete.....	270	14	420	2	840	7.01	.98	7.99	.0009
Manchester.....	Chestnut to Elm.....	".....	570	32	2,026	4	8,104	21.09	2.80	23.89	.0011
Union.....	Lowell to Hanover.....	".....	915	30	3,050	7	21,350	13.99	1.86	15.85	.0010
".....	Merrimack to Lake avenue.....	".....	770	30	2,566	6	15,396	1.94	.24	2.18	.0014
Central.....	Elm to Manhattan lane.....	".....	100	34	377	4	1,065	13.89	1.71	15.60	.0010
Lake avenue.....	Chestnut to Elm.....	".....	570	34	2,153	5	10,765	10.09	1.21	11.30	.0015
Pine.....	Central to Spruce.....	".....	540	30	1,800	4	7,200	7.35	1.00	8.35	.0023
Granite.....	B.&M. R.R. to Granite bridge.....	Granite block.....	800	40	3,555	1	355,577	\$346.38	\$51.11	\$397.49	



STREET SPRINKLING, DIVISION No. 2, ROUTE No. 1, SPRINKLER No. 12, BOYD'S TEAM; NORTH OF  
WEBSTER STREET, RIVER ROAD TO BEECH STREET.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	1 150			Elm.....	Salmon to Webster.....	Elm and West Salmon.
2		1 250		Elm, east side	Webster to Clarke.....	Clarke and Elm.
3		1 550		" "	Clarke to south of Trenton .....	Elm, south of Trenton.
4		1 550		" west side.	South of Trenton to Clarke.....	Clarke and Elm.
		1 250		" "	Clarke to Webster.....	
5		600		Webster .....	Elm to Chestnut .....	Chestnut and Webster.
6		1 400		" "	Chestnut to Beech .....	Beech and Webster.
	550			" "	Beech to Union.....	
7		1 200		Union .....	Webster to Clarke.....	Clarke and Webster.
8		1 200		" "	Clarke to Carpenter.....	Carpenter and Clarke.
		1 400		Carpenter.....	Union to Elm .....	
9	200		350	Elm .....	Carpenter to south of Trenton .....	Elm, south of Trenton.
		600		Trenton.....	South of Trenton to Trenton.....	
		600		Chestnut .....	Elm to Chestnut .....	
		1 700		Chestnut to Clarke .....	Trenton to Elm .....	
			600	Clarke.....	Chestnut to Elm .....	
10		800		" "	Elm to Adams.....	Clarke and Elm.
	200			" "	Adams to Chestnut.....	
				Chestnut.....	Clarke to Webster.....	
11	250	1 200		Webster.....	Chestnut to North Adams.....	Chestnut and Webster.
		1 550		North Adams .....	Webster to north of Clarke.....	
	300			" "	North of Clarke to Clarke.....	
12	250	500		Clarke.....	North Adams to Union .....	Clarke and Union.
				" "	Union to Ray .....	
	250			Ray.....	Clarke to Webster.....	
	250	1 200		Webster .....	Ray to Union.....	
	300			Union .....	Webster to Appleton.....	
		1 400		Appleton.....	Union to Elm .....	
			600	" "	Elm to Chestnut.....	

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 1, SPRINKLER No. 12, BOYD'S TEAM; NORTH OF WEBSTER STREET, RIVER ROAD TO BEECH STREET.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
13	600	300	300	Chestnut	Appleton to Webster.	Chestnut and Webster.
	650	50		West Webster	Chestnut to Elm.	
	1,300	650		River road.	Elm to River road.	
14	200	500	500	West Clarke	West Webster to West Clarke	Clarke and Elm.
				"	River road to Elm.	
				Everett	Elm to River road	
	350	350		Waldo	River road to Everett.	
	200	200		Elm	West Clarke to Waldo.	
	350	350		Clarke	Everett to Elm.	
15	300	1,200		Bay	Waldo to Clarke.	Clarke and Elm.
		300		Carpenter	Elm to Bay.	
		350		Elm	Clarke to Carpenter.	
16	250	1,100		Rovell	Bay to Elm.	Elm, south of Trenton.
	1,400	250		River road	Carpenter to south of Trenton	
		350		Readey	South of Trenton to Rowell	
		350		Elm.	Elm to River road	
17	350	1,300		Readey	Rowell to Readey	
	350	350		Elm	River road to Elm.	
				Readey	Readey to south of Trenton	
				Elm	South of Trenton to Readey	
				West Clarke	Elm to River road	
18	550	700	500	Elm.	Readey to West Clarke	Elm, south of Trenton.
		550		Monroe	River road to Elm.	
				"	Clarke to Monroe	Clarke and Elm.
	550	250		Elm.	Elm to River road	
	250	250		West Appleton	River road to Elm	
	250	250		Elm, westerly	Monroe to West Appleton	
				Elm	Elm, westerly	
				West Appleton	West of Elm to Elm	
				Webster	West Appleton to West Webster	
					Elm to Chestnut	
	6,050	31,850	3,900			

Twice daily. In P. M. in addition to the foregoing West North, Elm to River road; River road, West North to West Webster; West Webster, River road to Elm street, are sprinkled.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 2, SPRINKLER No. 18, E. H. HOLMES' TEAM; ELM TO  
BEECH, HARRISON TO WEBSTER STREETS.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	950	950	.....	Elm, east side	Prospect to Blodget.....	Elm and Prospect.
2	950	950	.....	Elm, east side	Blodget to Salmon.....	Blodget and Elm.
3	1100	1100	.....	"	Salmon to Webster.....	Elm and Salmon.
4	600	600	.....	Webster	Elm to Chestnut.....	Chestnut and Webster.
5	1,100	1,100	.....	"	Chestnut to Elm.....	Elm and Salmon.
6	900	900	.....	Elm, west side	Webster to Salmon.....	Elm and Salmon.
7	950	950	.....	"	Elm to Amoskeag bridge	Blodget and Salmon.
8	600	600	.....	West Salmon	Amoskeag bridge to Elm	Elm and Prospect.
9	1,900	1,900	.....	Elm, west side	Salmon to Blodget.....	Pine and Salmon.
10	450	450	.....	"	Blodget to Prospect.....	Pine and Salmon.
11	150	150	.....	Prospect	Elm to Chestnut.....	Pine and Salmon.
12	650	650	.....	Chestnut.....	Prospect to Salmon.....	Pine and Salmon.
13	300	300	.....	Pine	Chestnut to Pine.....	Pine and Salmon.
14	1,150	1,150	.....	Webster	Salmon to Webster.....	Pine and Salmon.
15	300	300	.....	Chestnut	Pine to Chestnut.....	Pine and Salmon.
16	1,900	1,900	.....	Salmon	Webster to Salmon.....	Pine and Salmon.
17	650	650	.....	Pine	Chestnut to Pine.....	Pine and Salmon.
18	450	450	.....	Prospect	Salmon to Prospect.....	Pine and Salmon.
19	100	100	.....	Union	Pine to Union.....	Pine and Salmon.
20	150	150	.....	Brook	Prospect to Brook.....	Pine and Salmon.
21	150	150	.....	Union east back	Union to Union east back	Pine and Salmon.
22	100	100	.....	"	Brook to standpipe.....	Pine and Salmon.
23	2,350	2,350	.....	Brook	Standpipe to Brook.....	Pine and Salmon.
24	550	550	.....	Union	Union east back to Union.....	Pine and Salmon.
25	650	650	.....	Webster	Brook to Webster.....	Pine and Salmon.
26	650	650	.....	Beech	Union to Beech.....	Pine and Salmon.
27	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
28	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
29	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
30	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
31	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
32	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
33	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
34	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
35	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
36	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
37	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
38	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
39	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
40	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
41	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
42	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
43	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
44	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
45	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
46	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
47	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
48	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
49	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
50	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
51	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
52	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
53	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
54	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
55	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
56	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
57	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
58	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
59	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
60	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
61	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
62	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
63	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
64	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
65	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
66	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
67	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
68	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
69	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
70	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
71	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
72	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
73	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
74	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
75	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
76	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
77	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
78	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
79	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
80	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
81	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
82	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
83	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
84	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
85	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
86	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
87	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
88	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
89	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
90	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
91	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
92	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
93	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
94	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
95	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
96	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
97	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
98	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
99	650	650	.....	Beech	Webster to North.....	Pine and Salmon.
100	650	650	.....	Beech	Webster to North.....	Pine and Salmon.

STREET SPRINKLING, DIVISION NO. 2, ROUTE NO. 2, SPRINKLER NO. 18, E. H. HOLMES' TEAM; ELM TO  
BEECH, HARRISON TO WEBSTER STREETS.—*Continued.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
15	500	1,950		North.	Beech to Elm.	Pine and Salmon.
13	350	900		Elm.	North to Salmon.	
	350	1,000		Salmon.	Elm to Pine.	
14	350	1,000	350	Beech.	Salmon to Sagamore.	Pine and Salmon.
	250	900		Sagamore.	Beech to Pine.	
	250	1,400		Pine.	Sagamore to Salmon.	
				Sagamore.	Salmon to Sagamore.	{ Union E. B. between Blodget and Brook.
				Elm.	Pine to Elm.	
				Pennacook.	Sagamore to Pennacook.	
				Union.	Elm to Union.	Blodget and Elm.
				Blodget.	Pennacook to Blodget.	
				Union east back.	Union to Union east back.	
17	250	650	250	Walnut.	Blodget to standpipe.	Harrison and Walnut.
	250	1,950		Harrison.	Standpipe to Brook.	
18	350	1,900	250	Elm.	Union east back to Beech.	
19	1,100	1,100		Elm, east side.	Brook to Blodget.	Elm and Prospect. Elm and Salmon.
	1,100	1,100		" "	Beech to Elm.	
	1,900	1,900		Elm, west side.	Blodget to Brook.	
20	6,030	36,550	3,300	Elm.	Elm to Beech.	Elm and Salmon.
				" "	Beech to Walnut.	
				" "	Brook to Prospect.	
				" "	Prospect to Harrison.	Elm and Prospect. Elm and Salmon.
				" "	Walnut to Beech.	
				" "	Harrison to Prospect.	
				" "	Prospect to Salmon.	Elm and Salmon.
				" "	Salmon to Webster.	
				" "	Webster to Salmon.	
				" "	Salmon to Prospect.	

ROUTE No. 2, P. M.

1	1,900	Elm, east side	Prospect to Salmon	Elm and Prospect. Elm and Salmon.
2	1,100	Elm, east side	Salmon to Webster	
3	1,100	Elm, west side	Webster to Salmon	Elm and Salmon.
4	600	Prospect	Salmon to Prospect	Elm and Prospect.
	1,900	Chestnut	Elm to Chestnut	
	300	Salmon	Prospect to Pine	Pine and Salmon.
5	1,150	Pine	Chestnut to Pine	
	300	Webster	Salmon to Webster	
	1,150	Chestnut	Pine to Chestnut	
6	500	Salmon	Webster to Salmon	Pine and Salmon.
200	600	Pine	Chestnut to Pine	
	600	North	Salmon to North	
900	1,550	Liberty	Pine to Liberty	
		Webster	North to Webster	
		Bay	Liberty to Bay	
		Salmon	Webster to Sagamore	
			Sagamore to Salmon	
7	1,900	Pine	Bay to Pine	Pine and Salmon.
	450	Prospect	Salmon to Prospect	
	400	Union	Pine to Union	
	100	Brook	Prospect to Brook	{ Union E. B. between Brook and Blodget.
	150	Union east back	Union to Union east back	
8	150	Brook	Brook to standpipe	
	100	Union	Standpipe to Brook	
	2,350	Webster	Union east back to Union	
	500		Brook to Webster	
9	250	Walnut	Union to Beech	Beech and Webster.
	2,050	Blodget	Beech to Walnut	
	150	Union east back	Webster to Blodget	
10	150	Blodget	Walnut to Union east back	{ Union E. B. between Blodget and Brook.
	100	Walnut	Blodget to standpipe	
	1,000	Harrison	Standpipe to Blodget	
	250	Harrison	Union east back to Walnut	
11	250	Harrison	Blodget to Prospect	
	1,950		Prospect to Harrison	Harrison and Walnut.
	2,850		Walnut to Beech	
	2,850		Beech to Elm	



STREET SPRINKLING, DIVISION No. 2, ROUTE No. 3, SPRINKLER No. 13, MOORE & PRESTON'S TEAM;  
ELM TO BEECH AND AMHERST TO PROSPECT STREETS.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	1,900	1,350	500	Beech	Grove to Central	Grove, west of Beech.
2	500	1,350	300	Amherst	Central to Amherst	Amherst, east of Union.
3	300	1,350	300	"	Beech to Union	
3	300	2,300	600	"	Beech to Chestnut	Amherst and Vine.
4	1,200	1,200	1,200	"	Chestnut to Vine	
5	1,200	1,200	1,200	"	Vine to Chestnut	
6	950	2,350	500	Chestnut	Amherst to Prospect	
7	1,900	500	1,900	Prospect	Chestnut to Elm	Elm and Prospect.
8	500	300	300	Elm, east side	Prospect to Bridge	"
9	300	2,400	300	" west side	Bridge to Prospect	"
10	500	300	300	" center	Prospect to Bridge	
10	330	1,350	300	"	Bridge to Prospect	
10	330	1,350	300	Prospect	Elm to Pine	
10	330	1,350	300	Walnut	Prospect to Amherst	Amherst, east of Union.
10	330	1,350	300	"	Pine to Union	Orange and Union.
10	330	1,350	300	Amherst	Amherst to Orange	
10	330	1,350	300	Union	Orange to Prospect	
10	330	1,350	300	Prospect	Union to Walnut	
10	330	1,350	300	Walnut	Prospect to Harrison	Harrison and Walnut.
10	330	1,350	300	"	Harrison to Prospect	
10	330	1,350	300	Amherst	Prospect to Amherst	
10	330	1,350	300	Beech	Walnut to Union	Amherst, east of Union.
10	330	1,350	300	Concord	Union to Beech	
10	330	1,350	300	Chestnut	Amherst to Concord	
10	330	1,350	300	Lowell	Beech to Chestnut	
10	330	1,350	300	"	Concord to Lowell	
10	330	1,350	300	"	Chestnut to Beech	
10	330	1,350	300	"	Beech to Union	



11	11	250	850	300	Union High	Lowell to High	High and Union.
					Chestnut	Union to Chestnut	
			1,350		Bridge, south side	Chestnut to Beech	
			500		" north side	Beech to Union	High and Union.
12	12	250		250	Union	High to Bridge	
					"	Union to Chestnut	
			850		Bridge, north side	Chestnut to Birch	
				300	Bridge	Bridge to Washington	Birch and Washington.
13	13	300		200	Birch	Birch to Elm	
		550			Washington	Washington to Pearl	
					Elm	Elm to Union	
			1,450	300	Pearl	Pearl to Orange	Orange and Union.
14	14	300			Union	Orange to Pearl	
					"	Union to Beech	
		300	550		Pearl	Pearl to Orange	
					Beech	Beech to Union	Orange and Union.
15	15		550		Orange	Union to Elm	
			1,350		"	Orange to Myrtle	
		250			Elm	Elm, to half way Pine to Union	
			1,200	950	Myrtle	Half way Pine to Union to Union	
16	16			200	Union	Myrtle to Orange	Orange and Union.
		200			"	Orange to Myrtle	
		250			Myrtle	Union to half way Union and Pine	
			800		"	Half way Union and Pine to Beech	
					Beech	Myrtle to Prospect	
		250			Prospect	Beech to Walnut	
			250		Walnut	Prospect to Harrison	Harrison and Walnut.
17	17	250		250	"	Harrison to Prospect	
			1,700		Prospect	Walnut to Elm	
18	18		1,200		Elm east side	Prospect to Bridge	Elm and Prospect.
			1,200		" west side	Bridge to Prospect	
		6,350	34,600	6,150			

Twice a day.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 4, SPRINKLER No. 9, E. H. HOLMES' TEAM; BEECH,  
EASTERLY, BRIDGE, NORTHERLY.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	550	2,000	.....	Orange.....	Union to Beech.....	Orange and Union.
	.....	.....	.....	Beech.....	Orange to Sagamore.....	Beech and Webster.
2	.....	1,550	.....	".....	Sagamore to Webster.....	
	.....	.....	.....	Sagamore.....	Webster to Sagamore.....	
	.....	1,550	.....	Ash.....	Beech to Ash.....	
3	.....	250	.....	".....	Sagamore to standpipe.....	Ash, between Sagamore and Blodget.
	.....	.....	.....	Bridge.....	Standpipe to Bridge.....	
	.....	2,400	.....	Ash.....	Ash to Maple.....	
	.....	.....	.....	Maple.....	Bridge to East High.....	
	.....	.....	.....	Maple.....	Maple to East High.....	
4	150	.....	.....	East High.....	Nashua to Nashua.....	East High and Nashua.
	400	.....	.....	Maple.....	Nashua to Maple.....	
	.....	300	.....	Pearl.....	East High to Bridge.....	
	.....	.....	.....	".....	Bridge to Pearl.....	
5	.....	1,400	.....	Pearl.....	Maple to Ashland.....	Ashland and Pearl.
	.....	.....	.....	".....	Ashland to Belmont.....	
	.....	950	.....	Belmont.....	Pearl to Bridge.....	
	.....	700	.....	".....	Bridge to Old Bridge.....	
	.....	200	.....	Old Bridge.....	Belmont to Hall.....	Bridge and Hall.
	.....	400	.....	Hall.....	Bridge to Myrtle.....	
6	.....	1,200	.....	Myrtle.....	Hall to Linden.....	Linden and Myrtle.
	.....	750	.....	Linden.....	Myrtle to Orange.....	
7	.....	250	.....	Orange.....	Linden to Belmont.....	
	.....	750	.....	Belmont.....	Orange to Myrtle.....	
	.....	250	.....	Myrtle.....	Belmont to Hall.....	
	.....	300	.....	Hall.....	Myrtle to Prospect.....	
	.....	250	.....	Prospect.....	Hall to Linden.....	
	.....	750	.....	Linden.....	Prospect to Myrtle.....	Linden and Myrtle.
	.....	250	.....	".....	Myrtle to Bridge.....	
8	.....	1,100	.....	Bridge.....	Linden to Ashland.....	
	200	.....	.....			

9	550 350 350 1,700	Ashland Pearl Morrison Pearl to Arlington Arlington Maple East High Nashua Bridge Russell Myrtle Ash Prospect " "	Bridge to Pearl Ashland to Morrison Pearl to Arlington Morrison to Maple Arlington to East High Maple to Nashua East High to Bridge Nashua to Russell Bridge to Myrtle Myrtle to Ash Ash to Prospect Prospect to Oak Oak to Russell Russell to Harrison Harrison to Linden Linden to Myrtle Myrtle to Orange Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	Ashland and Pearl.  East High and Nashua.  Prospect and Oak.  Linden and Myrtle.  Oak and Prospect.  Ash, between Blodget and Sagamore.
10	400 250	East High Nashua Bridge Russell Myrtle Ash Prospect " "	Maple to Nashua East High to Bridge Nashua to Russell Bridge to Myrtle Myrtle to Ash Ash to Prospect Prospect to Oak Oak to Russell Russell to Harrison Harrison to Linden Linden to Myrtle Myrtle to Orange Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	
11	400 250	East High Nashua Bridge Russell Myrtle Ash Prospect " "	Maple to Nashua East High to Bridge Nashua to Russell Bridge to Myrtle Myrtle to Ash Ash to Prospect Prospect to Oak Oak to Russell Russell to Harrison Harrison to Linden Linden to Myrtle Myrtle to Orange Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	
12	250	Orange Oak " "	Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	
13	250 250 400 750	Orange Oak " "	Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	
14	200 250 1,850 550	Russell Oak Brook Beech Blodget Ash " "	Russell to Harrison Harrison to Linden Linden to Myrtle Myrtle to Orange Orange to Prospect Prospect to Harrison Harrison to Blodget Blodget to Brook Brook to Blodget Blodget to Ash Ash to Blodget Blodget to standpipe Standpipe to Blodget Blodget to Pearl Pearl to Blodget Blodget to Beech	
	2,900 23,800			

## ROUTE No. 4, P. M.

1	125	Beech Pearl " "	Standpipe to Pearl Beech to Ashland Ashland to Belmont Belmont to Hall Hall to Orange Orange to Linden Linden to Myrtle Myrtle to Orange	Beech, between Pearl and Orange. Ashland and Pearl.
2	300	Hall Orange Linden " "	Hall to Orange Orange to Linden Linden to Myrtle Myrtle to Orange	
3	250	Linden " "	Linden to Myrtle Myrtle to Orange	Linden and Myrtle.

STREET SPRINKLING, DIVISION No. 2, ROUTÉ No. 4, SPRINKLER No. 9, E. H. HOLMES' TEAM; BEECH,  
EASTERLY, BRIDGE, NORTHERLY.—*P. M. Continued.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
4	250 250 1,600	1,700 850 250	250 250	Orange Beech Myrtle Oak "Myrtle" Hall Prospect Linden	Linden to Beech Orange to Myrtle Beech to Oak Myrtle to Prospect Prospect to Myrtle Oak to Hall Myrtle to Prospect Hall to Linden Prospect to Myrtle Myrtle to Prospect Linden to Oak Oak to Beech Prospect to Harrison Beech to Russell Russell to Oak Harrison to Prospect Prospect to Harrison Oak to Maple Harrison to Brook Maple to Beech Brook to Sagamore Beech to Russell Russell to Ash Sagamore to standpipe	Oak and Prospect.
5	250	850	250	"Prospect"		Linden and Myrtle.
6	250	850		Beech Harrison		Oak and Prospect.
7	250 300 400	250 300 500	450 250	Oak "Harrison" Maple Brook Beech Sagamore "Ash"		Oak and Prospect.
8	250	2,600	250	"Bridge"		Ash, between Sagamore and Blodget.
9	750	1,150		Maple		Bridge and Walnut.
	3,875	18,250	2,950			

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 5, SPRINKLER No. 14, EDWARD E. HOYT'S TEAM;  
HANOVER TO BRIDGE, BEECH TO TOP OF HILL.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	.....	1,500	.....	Bridge	Hall to Nashua.....	Bridge and Hall. East High and Nashua.
2	400	.....	400	Nashua	Bridge to East High	
	.....	1,900	.....	"	East High to Bridge	
	.....	.....	500	Bridge	Nashua to Beech.....	East High and Nashua.
	.....	.....	400	"	Beech to Maple.....	
3	150	.....	150	Maple	Bridge to East High	
	400	.....	.....	"	Nashua to Maple.....	Amherst and Union.
	500	.....	.....	Bridge	East High to Bridge	
	.....	1,600	.....	"	Maple to Beech.....	
	.....	.....	300	Bridge	Bridge to Hanover.....	East High and Nashua.
	.....	.....	400	"	Hanover to Amherst	
4	450	.....	450	Amherst	Beech to Union.....	
	.....	.....	.....	"	Union to Beech.....	East High and Nashua.
	.....	.....	.....	Ash	Beech to Ash.....	
	.....	250	.....	"	Amherst to Bridge	
	.....	1,350	.....	Bridge	Ash to Maple.....	East High and Nashua.
	.....	.....	250	"	Bridge to East High	
	.....	.....	400	Maple	Maple to Nashua.....	
	.....	.....	150	East High	Bridge to Nashua.....	Ashland and Hanover.
5	400	.....	.....	Nashua	East High to Bridge	
	.....	1,200	.....	"	Bridge to Concord	
	.....	.....	800	"	Concord to East High	Amherst and Union.
6	150	.....	.....	East High	Nashua to Maple.....	
	400	.....	.....	Maple	East High to Bridge	
	.....	.....	.....	"	Bridge to Hanover	Amherst and Union.
	.....	1,750	.....	"	Maple to Ashland	
7	300	.....	1,100	Hanover	Hanover to Amherst	
	.....	.....	.....	Ashland	Ashland to Beech	Amherst and Union.
	.....	1,750	.....	Amherst	Beech to Union.....	
	.....	.....	450	"		



STREET SPRINKLING, DIVISION No. 2, ROUTE No. 5, SPRINKLER No. 14, EDWARD E. HOYT'S TEAM;  
HANOVER TO BRIDGE, BEECH TO TOP OF HILL.—*Continued.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
8	450	.....	.....	Amherst	Union to Beech.....	
	300	1,750	.....	Beech	Amherst to Concord.....	
	.....	650	.....	Concord	Beech to Ashland.....	
9	.....	1,650	.....	Ashland	Concord to Hanover.....	Ashland and Hanover.
	.....	.....	550	"	Hanover to Bridge.....	Bridge and Hall.
10	300	.....	.....	Bridge	Ashland to Hall.....	
	.....	1,900	.....	Hall	Bridge to East High.....	
	.....	.....	150	"	Hall to Maple.....	
11	300	.....	.....	East High	Maple to Nashua.....	East High and Nashua.
	.....	.....	.....	Nashua	East High to Jane.....	
	.....	700	.....	Jane	Nashua to Lowell.....	
	.....	400	.....	Lowell	Jane to South.....	
	.....	350	.....	South	Lowell to East High.....	
12	400	.....	.....	East High	South to Nashua.....	East High and Nashua.
	200	.....	.....	Nashua	East High to Bridge.....	
	.....	1,050	.....	Bridge	Nashua to Malvern.....	
	.....	.....	.....	Malvern	Bridge to Concord.....	
	200	.....	.....	Concord	Malvern to Derry.....	
	.....	450	.....	Derry	Concord to Amherst.....	
	200	.....	.....	Amherst	Derry to Dutton.....	
	.....	450	.....	"	Amherst to Concord.....	
	200	.....	.....	Dutton	Concord to Chester.....	
	200	.....	.....	Chester	Dutton to Amherst.....	
	.....	300	.....	Lincoln	Amherst to Hanover.....	Ashland and Hanover.
13	550	.....	5.0	Hanover	Lincoln to Ashland.....	Bridge and Hall.
	.....	1,650	.....	Hall	Ashland to Hall.....	
	.....	300	.....	Bridge	Hanover to Bridge.....	
14	.....	.....	.....	Belmont	Hall to Belmont.....	
	.....	1,650	.....		Bridge to Hanover.....	



15	450	Hanover	Belmont to Beacon	Beacon and Hanover.
16	800	"	Beacon to East of Alfred	
16	800	"	East of Alfred to Beacon	Beacon and Hanover.
16	300	Beacon	Hanover to Amherst	
16	300	Amherst	Beacon to Ashland	
16	1,400	Amherst	Amherst to Hanover	Ashland and Hanover.
17	300	Ashland	Ashland to Belmont	
17	900	Hanover	Hanover to Lowell	
17	900	Belmont	Belmont to Beech	
17	2,700	Lowell		
17	8,300			
17	26,050			
17	8,250			

Twice a day.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 6, SPRINKLER No. 3, J. D. FRENCH'S TEAM; UNION  
TO HALL, AUBURN TO HANOVER STREETS.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	1,000	1,000	.....	Hall.....	Central to Hanover.....	Central and Hall.
2	800	800	.....	Hanover.....	Hall to Beacon.....	Beacon and Hanover.
3	600	600	.....	".....	Beacon to Hall.....	Ashland and Hanover.
4	1,800	1,800	.....	".....	Hall to Ashland.....	
5	600	600	.....	Beech.....	Ashland to Beech.....	
6	500	500	.....	Merrimack.....	Hanover to Merrimack.....	Merrimack and Union.
7	2,400	2,400	.....	Union.....	Beech to Union.....	
8	2,400	2,400	.....	Manchester.....	Merrimack to Manchester.....	
9	800	800	.....	".....	Union to Beech.....	
10	1,150	1,150	.....	Hall.....	Beech to Hall.....	Central and Hall.
11	1,800	1,800	.....	Merrimack.....	Manchester to Central.....	
12	500	500	.....	".....	Central to Merrimack.....	
13	500	500	.....	Beech.....	Hall to Lincoln.....	Lincoln and Merrimack.
14	200	200	.....	".....	Lincoln to Union.....	Merrimack and Union.
15	2,400	2,400	.....	Laurel.....	Union to Beech.....	
16	1,450	1,450	.....	Hall.....	Merrimack to Laurel.....	
17	950	950	.....	Central.....	Beech to Hall.....	Central and Hall.
18	500	500	.....	Beech.....	Laurel to Central.....	Central, between Lincoln and Maple.
19	500	500	.....	Merrimack.....	Hall to standpipe.....	
20	750	750	.....	".....	Standpipe to Beech.....	
21	2,400	2,400	.....	Lake avenue.....	Central to Merrimack.....	Merrimack and Union.
22	200	200	.....	".....	Beech to Union.....	
23	200	200	.....	Wilson.....	Union to Beech.....	
24	200	200	.....	".....	Merrimack to Lake avenue.....	
25	200	200	.....	".....	Beech to Hall.....	
26	200	200	.....	".....	Lake avenue to Central.....	Central and Hall.
27	200	200	.....	".....	Central to Lake avenue.....	
28	200	200	.....	".....	Hall to Wilson.....	
29	200	200	.....	".....	Lake avenue to Spruce.....	

1,550	Wilson	Spruce to Hanover	Lincoln and Merrimack.
530	"	Hanover to Merrimack	
600	Merrimack	Wilson to Lincoln	
550	Lincoln	Merrimack to Hanover	
1,600	"	Hanover to Merrimack	
530	Auburn	Merrimack to Auburn	Auburn and Lincoln.
2,100	Maple	Lincoln to Maple	
1,000	"	Auburn to Hanover	
250	Central	Hanover to Central	Central, between Lincoln and Maple.
Maple	"	Maple to standpipe	
Spruce	"	Standpipe to Maple	
1,850	Maple	Central to Spruce	
500	Spruce	Beech to Wilson	
600	Wilson	Spruce to Auburn	Auburn and Lincoln.
250	Auburn	Wilson to Lincoln	
1,200	Lincoln	Auburn to Cedar	
250	Cedar	Lincoln to Beech	
1,200	Beech	Cedar to Auburn	
500	Auburn	Beech to Lincoln	Auburn and Lincoln.
1,400	Lincoln	Auburn to Spruce	
8,750	Spruce	Lincoln to Massabesic	
30,100			
4,630			

Twice a day.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 7, SPRINKLER No. 15, J. H. DECOURCEY'S TEAM;  
CHESTNUT TO BEECH, HANOVER TO VALLEY STREETS.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	.....	1,600	.....	Pine.....	Bell to East Spruce	Bell and Pine. Spruce and Union.
2	500	.....	450	" Spruce.....	Pine to Union	
	500	.....		Beech.....	Union to Beech	
	.....	.....	.....	Central.....	Spruce to Central	
	.....	1,000	.....	Pine.....	Beech to Pine	Amherst and Vine.
	.....	1,400	.....	".....	Central to Amherst.	
3	300	.....	650	Amherst.....	Pine to Vine.....	
	.....	.....	.....	".....	Vine to Chestnut.....	
	800	1,100	.....	Chestnut.....	Amherst to Laurel.....	Amherst and Union. Spruce and Union.
	.....	1,400	.....	Hanover.....	Laurel to Hanover.....	
	.....	.....	500	".....	Chestnut to Beech.....	
4	.....	.....	300	Union.....	Beech to Union.....	
5	450	1,300	.....	".....	Hanover to Amherst.....	Spruce and Union.
	.....	500	.....	Spruce.....	Amherst to East Spruce.....	
	.....	300	.....	Pine.....	Union to Pine.....	
	.....	300	.....	Central.....	Spruce to Central.....	
	.....	500	.....	".....	Pine to Chestnut.....	Chestnut and Lake avenue. Auburn and Maple.
	.....	500	.....	Pine.....	Chestnut to Pine.....	
6	500	.....	450	Spruce.....	Central to Spruce.....	
	.....	800	.....	Union.....	Pine to Union.....	
	.....	500	.....	Auburn.....	Spruce to Auburn.....	Auburn and Maple.
	.....	250	.....	Chestnut.....	Union to Chestnut.....	
7	500	.....	.....	".....	Auburn to Spruce.....	
	.....	1,350	.....	Cedar.....	Spruce to Lake avenue.....	
	.....	.....	600	".....	Lake avenue to Cedar.....	Auburn and Maple.
	.....	.....	250	Maple.....	Chestnut to Beech.....	
	.....	.....	.....	Auburn.....	Beech to Maple.....	
8	600	.....	.....	".....	Cedar to Auburn.....	
	.....	.....	.....	Auburn.....	Maple to Beech.....	

500	Auburn	Beech to Union	Spruce and Union.
500	Union	Auburn to Spruce	
450	Spruce	Union to Pine	
1,000	"	Pine to Beech	Spruce and Union.
500	"	Beech to Union	
250	Union	Spruce to Lake avenue	
450	Lake avenue	Union to Pine	
1,000	"	Pine to Beech	
500	"	Beech to Union	
800	"	Union to Chestnut	Chestnut and Lake avenue.
500	Chestnut	Lake avenue to Laurel	
1,350	Laurel	Chestnut to Beech	
200	Beech	Laurel to Merrimack	
500	Merrimack	Beech to Union	Merrimack and Union.
1,350	Union	Merrimack to Manchester	
800	Manchester	Union to Beech	
1,350	"	Beech to Chestnut	
800	Union	Chestnut to Union	Merrimack and Union.
800	Merrimack	Manchester to Merrimack	
500	"	Union to Chestnut	
500	"	Chestnut to Union	
500	"	Union to Beech	
500	Union	Beech to Union	Merrimack and Union.
450	Lake avenue	Merrimack to Lake avenue	
450	"	Union to Beech	
250	Union	Beech to Union	
500	Spruce	Lake avenue to Spruce	Spruce and Union.
500	"	Union to Beech	
500	Union	Beech to Union	
500	"	Spruce to Auburn	
500	Green	Auburn to Green	
500	Beech	Union to Beech	
250	Grove	Green to Grove	Beech and Grove.
250	Union	Beech to Union	
450	Green	Grove to Green	
450	Pine	Union to Pine	
450	Grove	Green to Grove	
500	"	Pine to Union	
500	"	Union to Beech	Beech and Grove.
500	Union	Beech to Union	
500	"	Grove to Valley	
8,450			
28,150			
6,200			

In P. M. Beech street from Hanover to Valley is sprinkled.  
Do not sprinkle streets south of Auburn.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 8, SPRINKLER No. 4. N. P. MARCHAND, DRIVER;  
BRIDGE TO AUBURN, CHESTNUT, WESTERLY.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	.....	1,409	.....	Elm, west side	Auburn to Pleasant	Auburn and Elm.
2	150	.....	150	Pleasant "	Elm to standpipe	Pleasant, east of Franklin.
3	300	1,100	300	Elm, west side	Standpipe to Elm.	
.....	.....	.....	.....	Amherst	Pleasant to Amherst.	Amherst and Vine.
4	200	1,100	300	Elm, west side	Vine to Elm.	
.....	.....	.....	.....	Bridge	Amherst to Bridge	
5	300	1,100	200	Birch	Elm to Birch	Birch and Washington.
.....	.....	.....	.....	Bridge	Bridge to Washington.	
6	150	1,100	300	Elm, east side	Washington to Bridge	
7	1,400	.....	.....	Amherst.	Birch to Elm	Amherst and Vine.
8	150	1,100	300	Elm, east side	Elm to Elm	
9	300	1,100	150	Pleasant	Vine to Elm.	Pleasant, east of Franklin.
10	200	1,100	300	Elm, center	Amherst to Pleasant	Auburn and Elm.
.....	.....	.....	.....	Amherst	Standpipe to Elm.	Pleasant, east of Franklin.
.....	.....	.....	.....	Elm, center	Pleasant to Amherst	Amherst and Vine.
.....	.....	.....	.....	Bridge	Vine to Elm.	
.....	.....	.....	.....	Birch	Amherst to Bridge	Birch and Washington.
.....	.....	.....	.....	Bridge	Elm to Birch	
.....	.....	.....	.....	"	Bridge to Washington	
.....	.....	.....	.....	Bridge	Washington to Bridge	
.....	.....	.....	.....	Bridge	Birch to Chestnut.	



.....	1,300	.....	Bridge.....	Chestnut to Canal.....	Birch and Washington.
.....	.....	1,050	".....	Canal to Birch.....	
11	200	200	Birch.....	Bridge to Washington.....	
.....	450	.....	".....	Washington to Bridge.....	
.....	250	.....	".....	Bridge to Lowell.....	
12	300	.....	Washington	Lowell to Washington.....	Birch and Washington.
.....	300	.....	Elm.....	Birch to Elm.....	
.....	550	.....	Lowell.....	Washington to Lowell.....	
.....	300	.....	Chestnut.....	Elm to Chestnut.....	
.....	550	.....	Concord.....	Lowell to Concord.....	
.....	250	.....	".....	Chestnut to Elm.....	
.....	300	.....	Vine.....	Elm to Vine.....	Amherst and Vine.
13	300	.....	Amherst.....	Concord to Amherst.....	
.....	550	.....	".....	Vine to Elm.....	
.....	300	.....	Chestnut.....	Elm to Chestnut.....	
.....	350	.....	Hanover.....	Amherst to Hanover.....	
.....	300	.....	".....	Chestnut to Elm.....	
.....	300	.....	Amherst.....	Hanover to Amherst.....	Amherst and Vine.
14	300	.....	".....	Elm to Elm.....	
.....	350	.....	Elm.....	Amherst to Market.....	
.....	250	.....	Market.....	Elm to Franklin.....	
.....	700	.....	Franklin.....	Market to Pleasant.....	Pleasant, east of Franklin.
.....	150	.....	Pleasant.....	Standpipe to Elm.....	
15	500	.....	Elm.....	Pleasant to Manchester.....	
.....	550	.....	Manchester.....	Elm to Chestnut.....	
.....	250	.....	Chestnut.....	Manchester to Merrimack.....	
.....	750	.....	Merrimack.....	Chestnut to Franklin.....	
16	150	200	Franklin.....	W. Merrimack to Pleasant.....	Pleasant, east of Franklin.
.....	250	.....	Pleasant.....	Standpipe to Elm.....	
.....	550	.....	Central.....	Pleasant to Central.....	
.....	250	.....	Chestnut.....	Elm to Chestnut.....	
.....	550	.....	Lake avenue.....	Central to Lake avenue.....	
.....	500	.....	Elm.....	Chestnut to Elm.....	
.....	150	.....	".....	Lake avenue to Pleasant.....	
17	150	.....	Pleasant.....	Elm to standpipe.....	Pleasant, east of Franklin.
.....	250	.....	Elm.....	Elm to standpipe.....	
.....	800	.....	West Central.....	Standpipe to Elm.....	
.....	500	.....	Canal.....	Pleasant to West Central.....	
18	700	.....	Granite.....	Elm to Canal.....	Canal and Granite.
.....	550	.....	Elm.....	West Central to Granite.....	
.....	550	.....	Auburn.....	Canal to Elm.....	Auburn and Elm.
.....	550	.....	Chestnut.....	Granite to Auburn.....	
.....	550	.....	Spruce.....	Elm to Chestnut.....	
.....	500	.....	Elm.....	Auburn to Spruce.....	
.....	550	.....	Auburn.....	Chestnut to Elm.....	
.....	550	.....	Elm.....	Spruce to Auburn.....	
20	550	.....	Auburn.....	Elm to Chestnut.....	Auburn and Elm.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 8, SPRINKLER No. 4, N. P. MARCHAND, DRIVER;  
BRIDGE TO AUBURN, CHESTNUT, WESTERLY.—*Concluded.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
250	250	550		Chestnut.....	Auburn to Cedar.....	
300	300	300	300	Cedar.....	Cedar to Elm.....	
7.0	7.0	1,450	7.0	Elm.....	Elm to Canal.....	Canal and Granite.
21	21	1,450	2,150	Granite.....	Canal to Turnet.....	
22	22	1,400	550	".....	Turnet to Elm.....	
23	150	1,100	150	Elm.....	Granite to Auburn.....	Auburn and Elm.
24	300	1,100	3.0	Elm, west side.....	Auburn to Pleasant.....	Pleasant, east of Franklin.
25	300	1,100	2.0	Pleasant.....	Elm to Standpipe.....	
26	300	1,100	300	".....	Standpipe to Elm.....	
27	150	1,400	150	Elm, west side.....	Pleasant to Amherst.....	Amherst and Vine.
				Amherst.....	Elm to Vine.....	
				".....	Vine to Elm.....	
				Elm, west side.....	Amherst to Bridge.....	
				Bridge.....	Elm to Birch.....	
				Birch.....	Bridge to Washington.....	Birch and Washington.
				".....	Washington to Bridge.....	
				Bridge.....	Birch to Elm.....	
				Elm, east side.....	Bridge to Amherst.....	
				Amherst.....	Elm to Vine.....	Amherst and Vine.
				".....	Vine to Elm.....	
				Elm, east side.....	Amherst to Pleasant.....	
				Pleasant.....	Elm to Standpipe.....	Pleasant, east of Franklin.
				".....	Standpipe to Elm.....	
				Elm, east side.....	Pleasant to Auburn.....	
	9,100	31,000	11,650			

Twice a day.

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 9, SPRINKLER No. 11, D. M. POORE'S TEAM;  
PINE STREET, WESTERLY, VALLEY STREET, SOUTHERLY.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	.....	300	.....	Valley .....	Willow to Elm.....	Valley and Willow.
2	.....	1,300	.....	Elm .....	Valley to Auburn .....	Auburn and Elm.
3	.....	2,300	1,100	" .....	Auburn to Railroad bridge .....	
4	.....	1,100	.....	" .....	Railroad bridge to Brown avenue .....	Brown avenue and Elm.
5	.....	2,600	1,100	" .....	Brown avenue to Railroad bridge .....	
6	.....	1,100	.....	Brown avenue .....	Railroad bridge to Brown avenue .....	Brown avenue and Elm.
7	.....	800	.....	Baker .....	Elm to Tannery gate .....	
8	.....	1,000	.....	Elm .....	Tannery gate to Baker .....	Baker and Elm.
9	.....	1,150	.....	Elm .....	Brown avenue to Elm .....	
10	.....	1,150	.....	Baker .....	Baker to Brown avenue .....	Baker and Elm.
11	.....	400	.....	Elm .....	Elm to Calf road .....	
12	.....	350	.....	Elm .....	Baker to north of Elm avenue .....	
13	.....	250	.....	Elm .....	North of Elm avenue to Elm avenue .....	
14	.....	350	.....	Elm .....	Calf road to Elm .....	
15	.....	350	.....	Elm .....	Elm avenue to Brown avenue .....	Brown avenue and Elm.
16	.....	290	.....	Elm .....	Brown avenue to Elm avenue .....	
17	.....	350	.....	Elm .....	Elm to Calf road .....	
18	.....	450	.....	Elm .....	Elm avenue to Welch avenue .....	
19	.....	400	.....	Elm .....	Welch avenue to Elm .....	
20	.....	1,200	.....	Elm .....	Welch avenue to Brown avenue .....	Brown avenue and Elm.
21	.....	1,200	.....	Elm .....	Brown avenue to Cheney place .....	
22	.....	1,200	.....	Elm .....	Elm to Brown avenue .....	
23	.....	1,200	.....	Elm .....	Brown avenue to Brewery .....	
24	.....	1,200	.....	Elm .....	Brewery to Brown avenue .....	
25	.....	1,200	.....	Elm .....	Hancock to Elm .....	Brown avenue and Elm.
26	.....	1,200	.....	Elm .....	Brown avenue to Valley .....	
27	.....	1,200	.....	Elm .....	Elm to Willow .....	Valley and Willow.
28	.....	1,200	.....	Elm .....	Willow to Elm .....	

STREET SPRINKLING, DIVISION No. 2, ROUTE No. 9, SPRINKLER No. 11, D. M. POORE'S TEAM; PINE STREET, WESTERLY, VALLEY STREET, SOUTHERLY. — *Continued.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe
11	1,300 2,300		Elm..... "..... 800	Valley to Auburn..... Auburn to Railroad bridge..... Railroad bridge to Valley.....		Auburn and Elm.
12	650		Valley..... 300	Elm to Willow..... Willow to Pine.....		Valley and Willow.
13	250 800		Pine..... "..... 800	Valley to Bell..... Bell to Hayward..... Hayward to Valley.....		Bell and Pine.
14	650 300		Valley..... Willow..... Merrill..... 250	Pine to Willow..... Valley to Merrill..... Willow to Elm..... Elm to Willow.....		Valley and Willow.
	250		".....	Merrill to Silver.....		
	1,200		Willow.....			
	700	24,800	8,600			

Twice a day.

STREET SPRINKLING, DIVISION No. 10, ROUTE No. 10, SPRINKLER No. 8, A. WARREN'S TEAM;  
SOUTH OF BLAINE AND WINTER STREETS.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	1,550			South Main	A to Log.	A and South Main. Log and South Main.
2	550			South Main	Log to M. & N. W. R. R.	
	200			"	M. & N. W. R. R. to Winter.	
	1,350			Winter.	South Main to Granite.	
	200			"	Winter to M. & N. W. R. R.	
	200			"	M. & N. W. R. R. to Winter.	
	500			Winter.	Granite to Parker.	Granite and Parker.
3	750			"	Parker to South Main	
	1,100			Blaine	South Main to Second.	
	150			Second.	Blaine to M. & N. W. R. R.	
	1,550		350	"	M. & N. W. R. R. to Frederick	
4	600			West Hancock	Frederick to West Hancock.	Hancock and Second.
	150			Dartmouth	Second to Dartmouth.	
	450			Goffe.	West Hancock to Goffe.	
	350			South Main	Dartmouth to South Main.	
	500			West Hancock	Goffe to West Hancock.	
	500			"	South Main to Dartmouth.	
	500			South Main	Dartmouth to South Main.	
	300			Milford	West Hancock to Milford.	Bowman and Milford.
5	470			Milford	Milford to Mast.	
	800			Bowman	Bowman to South Main.	Log and South Main.
	700			"	South Main to Riddle	
6	1,350			"	West to Milford.	
	850			Riddle	Riddle to Bowman.	Bowman and Milford.
	500			Milford	Bowman to Sylvester.	
7	2,300			"	Sylvester to Carroll.	Carroll and Milford.
8	850		900	Carroll.	Milford to Rochelle avenue.	Charleston ave. and Rochelle ave.





## STREET SPRINKLING, DIVISION No. 10, ROUTE No. 11, DANFORTH'S TEAM; RAILROAD TO ADAMS STREET, TURNER TO QUINCY STREET.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	950			School	Turner to South Main	School and Turner.
2	200			South Main	School to Granite	Granite and Main.
3	850			"	Granite to M. & N. W. R. R.	Granite and Main.
4	850			Granite	M. & N. W. R. R. to Granite	School and Turner.
5	950			Turner	Main to Granite bridge	Granite and Main.
6	100			"	Granite bridge to Turner	School and Turner.
7	400			Turner	School to Granite	Granite and Main.
8	400			Granite	Turner to Main	Adams and Main west back.
9	900			Main	Granite to Adams	Granite, west of West.
10	1,300			Adams	Main to Main west back	Granite and Green.
11	100			"	Main west back to Main	Conant and Main.
12	1,300			Main	Adams to Granite	Cartier and Conant.
13	500			Granite	Main to West of West	
14	1,000			Quincy	West of West to M. & N. W. R. R.	
15	500			Douglas	Granite to Douglas	
16	150			"	Quincy to Railroad	
17	450			Green	Railroad to Green	
18	200			"	Douglas to Granite	
19	200			Douglas	Granite to Douglas	
20	1,150			Main	Douglas to Main	
21	350			Conant	Main to Conant	
22	1,500			Quincy	Main to Quincy	
23	200			Douglas	Conant to Douglas	
24	250			Green	Quincy to Green	
25	200			Conant	Douglas to Conant	
26	150			"	Green to Hevey	
27	800			Cartier	Hevey to Cartier	
28	250			"	Conant to Wilton	



16	50	Walker	West of Turner to Turner	School and Turner.
17	400	Turner	Walker to School	
	1,000	"	School to Granite	
	250	Granite	Turner to School	
	1,600	Second	Granite to M. & N. W. R. R.	
		"	M. & N. W. R. R. to Walker	
18	450	Walker	Second to west of Turner	Walker, west of Turner.
		"	West of Turner to Third	
	300	Third	Walker to M. & N. W. R. R.	
	1,050	"	M. & N. W. R. R. to School	
	300	School	Third to Fourth	
	250	Fourth	School to Ferry	
	750	Ferry	Fourth to Turner	
19	300	Turner	Ferry to Bath	Ferry and Turner.
		"	Turner to Third	
	450	Bath	Third to Ferry	
	100	Third	Ferry to South Main	
	550	Ferry	South Main to Granite	Granite and Main.
	400	South Main	Granite to M. & N. W. R. R.	
20	850	"	M. & N. W. R. R. to Granite	Granite and Main.
21	1,300	Main	Granite to Adams	
		Adams	Main to Main west back	Adams and Main west back.
22	100	Main	Main west back to Main	
	1,300	"	Adams to Granite	
23	200	South Main	Granite to School	Granite and Main.
	950	School	South Main to Turner	
	2,550			
	36,650			

Twice a day.

STREET SPRINKLING, DIVISION No. 10, ROUTE No. 12, SPRINKLER No. 6, CHAS. BOISCLAIR'S TEAM; NORTH OF ADAMS, WEST OF MAIN STREET.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	250	400	.....	Amory .....	Main to McGregor.....	Amory and Main.
.....	.....	.....	.....	McGregor.....	McGregor to Marion .....	.....
.....	250	300	.....	Marion.....	Marion to Main .....	.....
.....	.....	.....	.....	Main .....	Marion to Wayne .....	.....
.....	250	200	.....	Wayne.....	Main to McGregor .....	.....
.....	.....	.....	.....	McGregor .....	Wayne to Main .....	.....
2	500	.....	.....	" .....	Main to Wayne.....	.....
.....	.....	.....	.....	" .....	Wayne to West Bridge .....	.....
.....	.....	.....	.....	West Bridge.....	McGregor to McGregor bridge.....	.....
.....	.....	.....	.....	McGregor .....	McGregor bridge to McGregor.....	.....
.....	.....	.....	.....	Amory .....	West bridge to Amory .....	.....
3	900	.....	.....	Main .....	McGregor to Main .....	Amory and Main.
.....	.....	.....	.....	McGregor.....	Amory to McGregor.....	.....
.....	.....	.....	.....	" .....	Main to West Bridge .....	.....
.....	.....	.....	.....	Amory .....	West Bridge to Amory .....	.....
4	1,100	.....	.....	Main .....	McGregor to Main .....	Amory and Main.
.....	.....	.....	.....	" .....	Amory to Putnam .....	Main and Putnam.
5	1,200	.....	.....	Adams .....	Putnam to Adams .....	.....
.....	.....	.....	.....	" .....	Main to standpipe .....	Adams, west of Main.
6	.....	.....	.....	Notre Dame avenue .....	Standpipe to Notre Dame avenue .....	.....
.....	.....	.....	.....	Putnam.....	Adams to Putnam .....	Notre Dame avenue and Putnam.
7	.....	.....	.....	Cartier.....	Notre Dame avenue to Cartier .....	.....
.....	.....	.....	.....	Sullivan.....	Putnam to Sullivan .....	.....
.....	.....	.....	.....	Main .....	Cartier to Main .....	.....
.....	450	.....	.....	Schuyler .....	Sullivan to Schuyler .....	.....
.....	.....	.....	.....	Notre Dame avenue .....	Main to Notre Dame avenue .....	.....
8	100	.....	.....	Adams .....	Schuyler to Adams .....	.....
.....	.....	.....	.....	" .....	Notre Dame avenue to standpipe.....	Adams, west of Main.
.....	.....	.....	.....	" .....	Standpipe to Main .....	.....

1,200	Main	Adams to Putnam	Notre Dame avenue and Putnam.
300	Putnam	Main to Notre Dame avenue	
500	Notre Dame avenue	Putnam to Wayne	
250	Wayne	Notre Dame avenue to Cartier	
500	Cartier	Wayne to Putnam	
250	Putnam	Cartier to Dubuque	
250	Dubuque	Putnam to Wayne	
250	Wayne	Dubuque to Cartier	
300	"	Cartier to Notre Dame avenue	
500	Main	Notre Dame avenue to Main	
1,100	"	Wayne to McGregor	Main and McGregor.
150	Amory	McGregor to Amory	Amory and Main.
700	Coolidge avenue	Main to Coolidge avenue	
1,250	Notre Dame avenue	Amory to Kelley	Coolidge avenue and Kelley.
550	"	Kelley to Wayne	
200	Amory	Wayne to Amory	
700	Coolidge avenue	Notre Dame avenue to Coolidge avenue	
1,500	"	Amory to Kelley	Coolidge avenue and Kelley.
1,500	"	Kelley to Mason	
250	Kelley	Mason to Kelley	
400	Cartier	Coolidge avenue to Cartier	
250	Coolidge avenue	Kelley to Coolidge avenue	
400	Bremer	Cartier to Bremer	
250	"	Coolidge avenue to Rimmon	
1,300	Dubuque	Rimmon to Dubuque	
500	Amory	Bremer to Amory	Amory and Dubuque.
250	"	Dubuque to Notre Dame avenue	
250	Cartier	Notre Dame avenue to Cartier	
950	"	Amory to south of Amory	
250	Kelley	South of Amory to Kelley	
700	Dubuque	Cartier to Dubuque	
1,800	Amory	Kelley to Amory	Amory and Dubuque.
150	"	Dubuque to west of Alsace	Amory, west of Alsace.
550	Joliette	Dubuque to Joliette	
250	Kelley	Amory to Kelley	
300	Alsace	Joliette to Alsace	
100	Amory	Kelley to Amory	
100	"	Alsace to standpipe	
600	Alsace	Standpipe to Alsace	
800	Kelley	Amory to Kelley	
550	Montgomery	Alsace to Montgomery	
550	"	Kelley to Amory	
250	Kelley	Amory to Kelley	
1,000	Hevey	Montgomery to Hevey	
300	"	Kelley to south of Amory	
550	Amory	South of Amory to Amory	
550	"	Hevey to Dubuque	Amory and Dubuque.

STREET SPRINKLING, DIVISION No. 10, ROUTE No. 12, SPRINKLER No. 6, CHAS. BOISCLAIR'S  
TEAM; NORTH OF ADAMS, WEST OF MAIN STREET.—*Continued.*

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
19	550	550	.....	Dubuque.....	Amory to Wayne.....	Amory and Dubuque.
.....	500	.....	.....	Wayne.....	Dubuque to Hevey.....	
.....	.....	.....	.....	Rimmon.....	Hevey to Rimmon.....	
.....	500	.....	.....	".....	Wayne to Putnam.....	
.....	550	.....	.....	".....	Putnam to Wayne.....	
.....	.....	.....	.....	Amory.....	Wayne to Amory.....	
20	700	250	.....	Rimmon.....	Rimmon to Dubuque.....	
.....	250	.....	.....	".....	Dubuque to Rimmon.....	
.....	.....	.....	.....	Kelley.....	Amory to Kelley.....	
.....	250	.....	.....	".....	Rimmon to Hevey.....	
.....	250	.....	.....	".....	Hevey to Rimmon.....	
.....	.....	.....	.....	".....	Rimmon to Dubuque.....	
.....	5,700	32,300	.....			
.....	.....	.....	6,200			

Twice a day.



STREET SPRINKLING, DIVISION No. 7, ROUTE No. 13, SPRINKLER No. 5, S. A. BLOOD'S TEAM;  
WILSON TO CANTON, LAKE AVENUE TO GROVE.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	.....	900	.....	Massabesic .....	Taylor to Old Falls road .....	Massabesic and Taylor.
2	.....	900	.....	" .....	Old Falls road to Taylor .....	Massabesic and Taylor.
3	350	1,350	350	Hall .....	Taylor to Lake avenue .....	Central and Hall.
4	250	1,050	.....	Massabesic .....	Massabesic to Central .....	
	.....	500	.....	Old Falls road .....	Lake avenue to Old Falls road .....	
	.....	350	.....	Spruce .....	Massabesic to Spruce .....	
	.....	250	.....	Massabesic .....	Old Falls road to Massabesic .....	
	.....	350	.....	Hall .....	Spruce to Hall .....	Central and Hall.
	.....	.....	.....	" .....	Massabesic to Central .....	
	.....	500	.....	Lake avenue .....	Central to Lake avenue .....	
	.....	800	.....	" .....	Hall to Wilson .....	
	.....	300	.....	" .....	Wilson to Belmont .....	
5	500	.....	250	Hall .....	Belmont to Hall .....	Central and Hall.
	.....	300	.....	Spruce .....	Lake avenue to Central .....	
	.....	800	.....	" .....	Central to Spruce .....	
	.....	500	.....	Hall .....	Hall to Belmont .....	
6	250	.....	.....	" .....	Belmont to Wilson .....	Central and Hall.
	300	.....	.....	Lake avenue .....	Wilson to Hall .....	
	.....	.....	.....	" .....	Spruce to Central .....	
	.....	1,250	.....	" .....	Central to Lake avenue .....	
7	.....	450	.....	Canton .....	Hall to Belmont .....	Cass and Lake avenue.
	.....	500	.....	" .....	Belmont to Cass .....	
	.....	250	.....	" .....	Cass to Canton .....	Canton and Cedar.
8	.....	1,700	.....	Spruce .....	Lake avenue to Cedar .....	
	.....	.....	.....	" .....	Cedar to Spruce .....	
	.....	150	.....	Massabesic .....	Canton to Belmont .....	
	.....	250	.....	" .....	Belmont to Massabesic .....	
	.....	.....	.....	" .....	Spruce to Hall .....	

STREET SPRINKLING, DIVISION No. 7, ROUTE No. 13, SPRINKLER No. 5, S. A. BLOOD'S TEAM; WILSON  
TO CANTON, LAKE AVENUE TO GROVE.—Continued.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
9	250 300	..... .....	350	Hall..... "..... Lake avenue..... Belmont.....	Massabesic to Central..... Central to Lake avenue..... Hall to Belmont..... Lake avenue to Summer.....	Central and Hall.
10	..... ..... .....	1,050 250 800	..... ..... .....	Auburn..... Wilson..... ".....	Summer to Auburn..... Belmont to Lake avenue..... Lake avenue to Auburn.....	Auburn and Wilson. Auburn and Wilson.
11	250	.....	.....	Cedar..... Hall..... "..... ".....	Auburn to Cedar..... Wilson to Hall..... Cedar to Spruce..... Spruce to Auburn.....	Hall and Summer.
12	250	.....	.....	Auburn..... Belmont..... Summer.....	Summer to Auburn..... Hall to Belmont..... Auburn to Summer..... Belmont to Massabesic.....	
13	..... ..... .....	..... ..... .....	..... ..... .....	Dearborn..... Taylor..... "..... Grove.....	Massabesic to Dearborn..... Summer to Taylor..... Dearborn to Massabesic..... Massabesic to Grove..... Taylor to Belmont.....	Massabesic and Taylor.
	2,700	21,350	2,500			

Twice a day.

STREET SPRINKLING, DIVISION No. 7, ROUTE No. 14, SPRINKLER No. 2, J. D. FRENCH'S TEAM;  
WILSON TO TAYLOR, SOMERVILLE, SOUTHERLY.

Load.	Distance to begin.	Distance sprinkled.	Distance to load.	Street.	Limits.	Standpipe.
1	1,300			Belmont	Hayward to Somerville	Belmont and Hayward. Belmont and Hayward.
2	1,350			"	Somerville to Hayward	
	650			Harvard	Hayward to Harvard	Silver and Wilson.
3	250	80		Wilson	Belmont to Wilson	
	1,000			"	Harvard to Silver	Silver and Wilson.
4	1,000			"	Wilson to railroad	
	600			Wilson	Railroad to Wilson	Silver and Wilson.
	600			"	Silver to Clay	
5	300			"	Clay to Silver	Silver and Wilson.
	800			Somerville	Silver to Somerville	
	800			"	Wilson to Belmont	Silver and Wilson.
6	1,400		300	Wilson	Belmont to Wilson	
	500	1,550		Valley	Somerville to Silver	Belmont and Hayward.
7	450	600		Hayward	Silver to Valley	
				Belmont	Wilson to Taylor	Hall and Summer.
	1,050			Summer	Valley to Hayward	
	300	800		Hall	Taylor to Belmont	Hall and Summer.
8	250	250	800	"	Valley to Summer	
	450			Auburn	Belmont to Hall	Hall and Summer.
	250			Wilson	Summer to Bell	
	450			Summer	Bell to Summer	Silver and Wilson.
9	450			"	Summer to Auburn	
				Wilson	Summer to Auburn	Belmont and Hayward.
	2,200			Wilson	Hall to Wilson	
10	800		300	Silver	Auburn to Summer	Belmont and Hayward.
	950			Belmont	Wilson to Hall	
11	600			Hayward	Summer to Harvard	Belmont and Hayward.
	1,250			Taylor	Wilson to Silver	
					Silver to Belmont	Belmont and Hayward.
					Belmont to Taylor	
					Hayward to Somerville	Belmont and Hayward.
	3,750	19,950	1,400			

Twice a day.



400	1,000	Massabesic	Jewett to Cypress.	Foster avenue and Hayward.
	200	Cypress	Massabesic to Hayward	
10	200	Hayward	Cypress to Foster avenue	
	500	"	Foster avenue to Cypress	
	600	Cypress	Hayward to Valley	
	800	Valley	Cypress to Taylor	
11	800	Taylor	Valley to Massabesic	Massabesic and Taylor.
	850	"	Massabesic to Valley	
	250	"	Valley to Young	
	900	Hayward	Young to Hayward	
12	200	Hayward	Taylor to Foster avenue	Foster avenue and Hayward.
	850	Jewett	Foster avenue to Jewett	
13	350	"	Hayward to Young	Jewett and Young.
	400	Somerville	Young to Somerville	
	400	"	Jewett to Cypress	
	350	Jewett	Cypress to Jewett	
14	350	"	Somerville to Young	Jewett and Young.
	400	Somerville	Young to Somerville	
	750	"	Jewett to Cypress	
	750	"	Cypress to Taylor	
	400	"	Taylor to Cypress	
15	1,350	Jewett	Cypress to Jewett	Jewett and Young.
	700	Young	Somerville to Young	
	850	"	Jewett to Taylor	
16	600	Jewett	Taylor to east of Ainsworth avenue	Jewett and Young.
	200	Hayward	East of Ainsworth avenue to Jewett	
17	600	"	Young to Hayward	Foster avenue and Hayward.
	600	"	Jewett to Foster avenue	
	200	Foster avenue	Foster avenue to Kiley avenue	
18	200	Valley	Kiley avenue to Foster avenue	
	350	Jewett	Hayward to Valley	
	500	Massabesic	Foster avenue to Jewett	
	23,250		Valley to Massabesic	
	9,300		Jewett easterly to angle	
	6,050			

In P. M. do same except Somerville from Cypress to Taylor and sometimes Porter street.



## SUMMARY OF SPRINKLING ROUTES.

ROUTE.	A. M.					P. M.					Total for day.
	Number of loads.	Distance to begin.	Distance sprinkled.	Distance to load.	Total.	Number of loads.	Distance to begin.	Distance sprinkled.	Distance to load.	Total.	
Route No. 1, Division No. 2, Sprinkler No. 12; north of Webster, River road to Beech.....	18	6,050	31,850	3,900	41,800	*14	*4,840	*25,480	*3,120	*33,440	75,240
Route No. 2, Division No. 2, Sprinkler No. 13; Elm to Beech, Harrison to Webster.....	20	6,050	36,550	3,300	45,900	11	3,950	22,000	2,850	28,800	74,700
Route No. 3, Division No. 2, Sprinkler No. 13; Elm to Beech, Amherst to Prospect.....	18	6,350	34,600	6,150	47,100	*14	*5,080	*27,680	*4,920	*37,680	84,780
Route No. 4, Division No. 2, Sprinkler No. 9; Beech, easterly, Bridge, northerly.....	14	2,900	29,800	4,300	37,000	9	3,875	18,250	2,950	25,075	62,075
Route No. 5, Division No. 2, Sprinkler No. 14; Hanover to Bridge, Beech to top of hill.....	17	8,250	26,050	8,300	42,600	*14	*6,600	*20,840	*6,640	*34,080	76,680
Route No. 6, Division No. 2, Sprinkler No. 3; Union to Hall, Hanover to Auburn.....	16	8,750	30,100	4,650	43,500	*13	*7,100	*24,080	*3,720	*34,800	78,300
Route No. 7, Division No. 2, Sprinkler No. 15; Chestnut to Beech, Hanover to Valley.....	17	8,450	28,150	6,200	42,800	*14	*6,760	*22,520	*4,960	*34,240	77,040
Route No. 8, Division No. 2, Sprinkler No. 4; Bridge to Auburn, Chestnut, westerly.....	27	9,100	31,000	11,650	51,750	*22	*7,280	*24,800	*9,320	*41,400	93,150
Route No. 9, Division No. 2, Sprinkler No. 11; Pine, westerly, Valley, southerly.....	14	700	24,800	8,600	34,100	*11	*560	*19,840	*6,880	*27,280	61,380
Route No. 10, Division No. 10, Sprinkler No. 8; south of Blaine and Winter.....	12	4,450	24,950	2,300	31,700	*10	*3,560	*19,960	*1,840	*25,360	57,060
Route No. 11, Division No. 10, Sprinkler No. 7; Adams to railroad, Turner to Quincy.....	23	2,550	36,650	3,350	42,550	*18	*2,040	*29,320	*2,680	*34,040	76,590
Route No. 12, Division No. 10, Sprinkler No. 6; north of Adams, west of Main.....	20	5,700	32,300	6,200	44,200	*16	*4,560	*25,840	*4,960	*35,360	79,560
Route No. 13, Division No. 7, Sprinkler No. 5; Wilson to Canton, Lake avenue to Grove.....	13	2,700	21,350	2,500	26,550	*10	*2,140	*17,080	*2,000	*21,240	47,790
Route No. 14, Division No. 7, Sprinkler No. 2; Wilson to Taylor, Somerville, southerly.....	11	3,750	19,950	1,400	25,100	*9	*3,000	*15,960	*1,120	*20,080	45,180
Route No. 15, Division No. 7, Sprinkler No. 10; Taylor to Mammoth road, Massabesic to Young road.....	18	6,050	23,250	9,500	38,600	*14	*4,840	*18,600	*7,640	*31,080	69,680
228	81,800	431,350	82,100	595,250	199	66,105	332,250	65,600	463,955	1,059,205	
	Miles. 15.49	Miles. 81.69	Miles. 15.54	Miles. 112.72		Miles 12.52	Miles. 62.92	Miles. 12.42	Miles. 87.86	Miles. 200.53	

\* Estimated.



## RESULTANT DATA.

Total number of loads for one day, 457.  
 Distance to begin for one day, 28.01 miles.  
 Distance sprinkled for one day, 144.61 miles.  
 Distance to load for one day, 27.96 miles.  
 Total distance traveled for one day, 200.58 miles.  
 Standpipes, 68.  
 Capacity of sprinklers, 600 gallons.  
 Total gallons per day, 274,200.  
 Average loads per sprinkler per day, 30.46.  
 Average gallons per sprinkler per day, 18,280.  
 Average distance traveled per sprinkler per day, 13.37.  
 Average distance sprinkled per day, 9.64.  
 Average effectiveness per sprinkler per day, 72%.  
 Average waste (distance) per day per sprinkler, 28%.  
 Average cost per mile sprinkled (effective work), \$0.466.  
 Average cost per mile sprinkled (effective work) should be \$0.336.  
 Average distance sprinkled per load of 600 gallons, 1,670 feet, 2.78 feet per gallon.

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**Board of Street and Park Commissioners in account with the Appropriation for Paving Streets.**

By granite paving blocks, Charles A. Bailey:		
200,680-6" track blocks @ \$42.00 per M....	\$8,428.56	
11,550-5" track blocks @ \$35.00 per M....	404.25	
2,400 Boston blocks @ \$47.00 per M....	112.80	
1,420 street blocks @ \$47.00 per M....	66.74	
		\$9,012.35
Difference in freight between Manchester and Goffe's Falls .....		
		\$26.72
By wood paving blocks, United States Wood Preserving Co.:		
2,200 sq. yds. 3" creo-resinate wood paving blocks @ \$2.10 per yd. ....		\$4,620.00
By curbing and corner curbing:		
Charles A. Bailey .....	\$255.56	
Paradise & Dionne .....	\$465.93	
To 1% discount for cash.....	4.66	
	461.27	\$716.83
By cement:		
Henry W. Parker:		
1,800 bags Atlas @ 47½c.....	\$850.50	
To 1% discount for cash....	8.52	
		\$841.93

17 bbls. Atlas @ \$2.20.....	\$37.40	
Amoskeag Mfg. Co.:		
50 bags Atlas @ 46½c.....	23.25	
		\$902.63
By kerosene oil:		
Arthur A. Warren, 150 gallons @ 10c.....		\$15.00
By lumber and labor:		
The J. H. Mendell Co. ....	\$17.58	
Head & Dowst Co. ....	11.19	
		\$28.77
By supplies:		
John B. Varick Co., shovels, lantern globes, etc. ....	\$21.45	
Pike & Heald Co., nipples and bushing....	.27	
		\$21.72
By tar concrete work (new and repairs):		
Robie Consolidated Concrete Co. (see engineer's de- partment report, tables Nos. 1 to 5):		
203.213 sq. yds. @ 35c. ....	\$71.13	
1,238.74 sq. yds. @ 50c.....	619.37	
17.777 sq. yds. @ 65c. ....	11.56	
28.60 sq. yds. @ \$1.00 .....	28.60	
		\$730.66
By coal, L. B. Bodwell & Co.:		
3.025 tons coal @ \$5.00 .....	\$15.13	
1.235 tons screenings @ \$1.50 .....	1.85	
		\$16.98
By paving, James F. Cavanaugh:		
Labor of pavers .....	\$102.00	
2 loads pebbles .....	7.00	
	\$109.00	
To 10% on cost .....	10.90	
		\$119.90
2,009.23 sq. yds. @ 68c.....	\$1,366.27	
814.99 sq. yds. @ 88c. ....	717.19	
	\$2,083.46	
To labor, City of Manchester..	\$370.00	
To stock, City of Manchester:		
1,177 bags Atlas cement @ 40c.	\$470.80	
18 loads sand @ \$2.00.....	36.00	
34 loads grouting sand @ \$3.50	119.00	
	995.89	
		\$1,087.57
2,395.6 sq. yds @ 25c.....	\$598.90	
To labor, City of Manchester .....	65.57	
		\$533.33
By car service, Boston & Maine railroad.....		\$33.00

## By miscellaneous charges:

Sessions Foundry Co., 6 paving rammers..	\$5.60	
C. S. Boston, 3 loads stone.....	3.50	
		<hr/>
		\$9.10

## By labor:

Payroll Division No. 2.....	\$3,258.02	
Payroll Division No. 10.....	1,240.70	
Payroll Division No. 7.....	30.62	
Payroll Division No. 9.....	40.25	
	<hr/>	
	\$4,569.59	
		<hr/>
		\$22,444.15

To appropriation for paving streets.....	\$6,000.00	
Amoskeag Mfg. Co., 161 old paving blocks @ \$15.00 per M.....	2.42	
Hassam Paving Co., amount overpaid in 1906 on Hassam paving on South Main street, from South Main street bridge to south of Mast and Log streets.....	180.00	
Manchester Street Railway:		
Labor and material, repairing paving on Elm street, opposite Stark street at crossover .....	103.46	
Labor removing rails on Valley street...	8.15	
Labor and material paving car tracks on Manchester street and Pine street....	23.03	
Labor and material repairing paving on Granite street at B. & M. R. R. crossing .....	37.72	
Labor unloading granite paving blocks at city yard, Valley street.....	19.47	
Labor paving at Goffe's Falls, N. H.....	78.08	
Paving blocks, car service and freight..	9,066.07	
Labor removing dirt from car tracks on Valley street, Maple to Wilson streets	124.10	
Labor and material replacing paving on Elm street, between Granite and Depot streets .....	142.11	
Labor and material repairing paving on Manchester street, Pine to Chestnut streets .....	114.09	
Labor and material paving Valley street, Maple street west line to Wilson street, including curve between tracks, rails, and 18 inches outside each outer rail .....	598.90	

Labor and material relaying paving on Elm street from crossover south of Stark street southerly to the south line of Central street, between tracks, rails, and 18 inches outside each outer rail .....	\$2,083.46	
Labor and material repairing paving on Manchester street, Elm street easterly	123.62	
Labor and material paving car tracks on North Main street .....	226.73	
To Pike & Heald company, labor repairing paving on Granite street .....	1.56	
To J. W. Mudgett, 2 No. 3 corner curbs....	6.12	
To overdraft .....	3,505.06	
	<hr/>	<hr/>
	\$22,444.15	\$22,444.15

## STREET PAVING (Repairs).

STREET.	Location.	Square yards.	Cost of Material.	Labor.
Chestnut ... (433)	Lake avenue (charge to M. T. L. & P. Co.) .....	43.61	\$44.40	\$22.05
Elm ... (494)	Market street, northwest corner .....	3.65	7.84	6.25
" ... (495-500)	Hanover to Granite .....	66.22	141.65	132.44
Franklin ... (501)	Where poles were changed for electric arches ...	.....	1.85	19.80
Hampshire lane ... (502)	Market, connecting with wooden block paving ...	.....	6.77	21.50
" ... (503)	Between West Merrimack and Dean avenue, in rear of C. A. Holt's store .....	25.25	.....	3.92
Londonderry lane ... (504)	Between Nutfield lane and Chestnut, in rear of J. J. Abbott's store .....	.....	.....	1.13
Manchester ... (505)	Nutfield lane .....	.....	1.43	1.80
Manhattan lane ... (506)	Between Central and Lake avenue, in rear of No. 651 & No. 653 Elm St. (charge to Wm. Goodwin), Central .....	.....	.....	9.12
" ... (507)	Central, southerly .....	12.00	10.53	13.52
" ... (508)	Rear J. B. Varlick Co.'s store .....	550.00	.....	21.42
Nutfield lane ... (509)	Rear J. B. Varlick Co.'s store .....	.....	.....	1.00
Valley ... (510)	Between Maple and Willson .....	.....	.....	3.34
Elm ... (510)	Hanover, northeast corner .....	3.65	11.05	6.25
				\$263.54

## ITEMIZED OPERATIONS.

(589) BROWN AVENUE—Mill Avenue Northerly and Southerly (Goffe's Falls).

Paving in car tracks:

Labor of men.....	\$78.08
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All material was delivered by the Manchester Street Railway.

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

(614) CENTRAL STREET—Corner of Chestnut Street.

Paving crossing:

Labor of men .....	\$4.00
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Blocks were furnished by Manchester Street Railway.

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

(618) CENTRAL (WEST) STREET—East Side of R. G. Sullivan's New Factory.

Running mixer and making concrete walls:

Granite .....	\$4.00
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Sand .....	1.00
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Cement .....	13.50
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\$18.50

Labor of men .....	\$16.12
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Labor of teams .....	8.00
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24.12

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\$42.62

Charged to R. G. Sullivan and credit will appear in 1909 report.

(616) DEPOT STREET—Between Franklin Street and Elm Street.

Relaying paving:

Pea gravel .....	\$3.50
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Sand .....	1.50
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Cement .....	12.80
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\$17.80

Labor of men .....	\$25.30
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Labor of teams .....	13.50
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38.80

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\$56.60

Charged to the Manchester Street Railway and credit for same will appear in 1909 report.

(591-597) ELM STREET—City Hall Crossover to South Line of Central Street.

To 2,009.23 square yards (between track and rails) making bed, laying and ramming blocks, sweeping in pebbles, grouting joints, fur-



nishing and delivering pebbles, grouting sand and cement (blocks and sand bed furnished and delivered on work by Manchester Street Railway) with sand bed furnished and delivered by city, 75c. per square yard.

Street railway credit 7c. per square yard for furnishing and delivering sand bed.

2,009.23 sq. yds. @ 68c. per sq. yd..... \$1,366.27

To 814.99 square yards (outside each outer rail) making bed, laying and ramming blocks, sweeping in pebbles, grouting joints, furnishing and delivering pebbles, grouting sand and cement (blocks and sand bed furnished and delivered on work by Manchester Street Railway) with sand bed furnished and delivered by city and joints in old paving broken out and made, 95c. per square yard.

Street railway credit 7c. per square yard for furnishing and delivering sand bed.

814.99 sq. yds. @ 88c. per sq. yd..... 717.19

\$2,083.46

By material furnished by the city:

Cement ..... \$470.80

Sand ..... 36.00

Pea gravel ..... 119.00

\$625.80

Labor of men ..... \$370.09

Labor of teams ..... 8.00

378.09

995.89

\$1,087.57

This is charged to the Manchester Street Railway and credit for same appears under the appropriation for paving streets, financial.

(621-622) ELM STREET—West Side, Between Mechanic and Water Streets.

Relaying paving:

Broken stone ..... \$1.00

Sand ..... .75

Cement ..... 4.60

\$6.35

Labor of men ..... \$12.31

Labor of teams ..... 5.67

17.98

\$24.33

Charged to People's Gas-Light Company and credit for same will appear in 1909 report.

## (620) ELM STREET—West Side, at Auburn Street.

## Repairing paving:

Granite .....	\$4.00		
Coarse sand .....	5.50		
Pea gravel .....	3.50		
Cement .....	11.60		
Paving blocks .....	44.18		
			\$68.78
Labor of men .....	\$20.28		
Labor of teams .....	9.75		
			30.03
			\$98.81

Charged to the People's Gas-Light Company and credit for same will appear in 1909 report.

## (619) ELM STREET—Corner Depot Street.

## Patching paving, including concrete foundation:

Granite .....	\$0.50		
Pea gravel and sand .....	.50		
Cement .....	.60		
Paving blocks .....	2.50		
			\$4.10
Labor of men .....	\$5.22		
Labor of teams .....	.88		
			6.10
			\$10.20

Charged to the People's Gas-Light Company and credit for same appear in 1909 report.

## (611) ELM STREET—Near Hanover Street.

## Patching paving around poles:

Cement .....	\$0.90		
Sand .....	.10		
			\$1.00
Labor of men .....		4.12	
			\$5.12

Charged to Manchester Traction, Light & Power Company and credit for same will appear in 1909 report.

## (615) ELM STREET—Between Central Street and Depot Street.

## Relaying paving at turnout:

Pea gravel .....	\$8.50		
Sand .....	1.25		
Cement .....	30.40		
			\$40.15

Labor of men .....	\$79.67		
Labor of teams .....	6.49		
		<u>\$86.16</u>	
			\$126.31

Charged to Manchester Street Railway and credit for same will appear in 1909 report.

(590) ELM STREET—At City Hall Turnout.

Repairing paving:

Pea gravel .....	\$10.50		
Sand .....	3.00		
Cement .....	23.20		
		<u>\$36.70</u>	
Labor of men .....	\$58.90		
Labor of teams .....	7.86		
		<u>66.76</u>	
			\$103.46

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

(617) ELM STREET—West Side, at Auburn Street.

Replacing paving:

Granite .....	\$1.00		
Pea gravel .....	1.75		
Sand .....	.50		
Cement .....	2.40		
Paving blocks .....	.88		
		<u>\$6.53</u>	
Labor of men .....	\$11.30		
Labor of teams .....	5.25		
		<u>16.25</u>	
			\$23.08

Charged to the New England Telephone and Telegraph Company and credit will appear in 1909 report.

(610) ELM STREET—At Cedar Street.

Repairing paving:

Cement .....	\$1.00		
Paving blocks .....	2.10		
Pea gravel and sand .....	.50		
		<u>\$3.60</u>	
Labor of men .....	\$1.81		
Labor of teams .....	.87		
		<u>2.68</u>	
			\$6.28

Charged to the Manchester water-works and credit for same will appear in the 1909 report.

(604) ELM STREET—Between Granite Street and Depot Street.

Repairing paving:

Pea gravel .....	\$9.75		
Sand .....	4.50		
Cement .....	37.60		
			\$51.85
Labor of men .....	\$81.98		
Labor of teams .....	8.28		
			90.26
			\$142.11

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

(605) GRANITE STREET—B. & M. R. R. Crossing.

Cement .....	\$10.40		
Sand .....	1.50		
Pea gravel .....	1.50		
			\$13.40
Labor of men .....	\$22.57		
Labor of teams .....	1.75		
			24.32
			\$37.72

Total square yards, 68.358.

Cost per square yard, \$0.55.

Cost of blocks per square yard, \$1.18.

Total cost per square yard, \$1.73.

All excavation was done by the Manchester Street Railway; the blocks were unloaded and delivered by the street railway.

The blocks were paid for by the Manchester Street Railway in car-load lots, and credit for same appears under the appropriation for paving streets, financial.

The foregoing labor and material is charged to the Manchester Street Railway and credit for same appears under the appropriation for paving streets, financial.

(613) GRANITE STREET—At Amoskeag Side Track, West of the Canal.

Repairing paving:

Sand .....	\$2.00		
Cement .....	5.20		
			\$7.20
Labor of men .....	\$17.06		
Labor of teams .....	5.62		
			22.68
			\$29.88

Charged to Manchester Traction, Light & Power Company and credit for same will appear in 1909 report.

## (580) HAMPSHIRE LANE—Granite to Cedar Streets.

## Replacing paving:

Labor of men .....	\$1.56
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Charged to Pike & Heald Company and credit appears under the appropriation for paving streets, financial.

## (557-564) HAMPSHIRE LANE—Stark Street to South of Market Street.

## Foundation, cement concrete:

Labor of men .....	\$31.60	
Labor of teams .....	44.25	
277 bags Portland cement @		
47½c. ....	130.88	
17 loads sand @ 10c. ....	1.70	
31 loads gravel @ 10c. ....	3.10	
8 loads stone @ \$2.00 .....	16.00	
		\$227.53

## Paving:

554.832 sq. yds. tar concrete @ 50c.....	277.41	
		\$504.94

Length, 220.5 feet.

Width, 14 feet.

Length, 88.5 feet,

Rear of city hall.

Width, 21 feet,

Total length, 309 feet.

Square yards, 554.832.

See engineer's department report, table No. 4.

## (583-585) MAIN STREET—Onant Street to Putnam Street.

## Paving east brow of car track:

24 loads sand .....	\$36.00	
Labor of men .....	\$168.23	
Labor of teams .....	22.50	
		190.73
		\$226.73

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

## (581-582) MANCHESTER STREET—At Elm Street.

## Paving in car tracks:

Labor of men .....	\$99.45	
Labor of teams .....	3.12	
		\$102.57
Pea gravel .....	\$9.45	
Sand .....	2.00	
Cement .....	9.60	
		21.05
		\$123.62

Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

## (606-607) MANCHESTER STREET—Pine to Chestnut Street.

## Paving car tracks:

3 loads granite (6 tons) @ \$1.00	\$6.00	
2 $\frac{1}{3}$ loads pea gravel @ \$3.00..	7.00	
2 $\frac{1}{2}$ tons trap rock @ \$1.29....	3.23	
2 loads white sand @ \$1.50....	3.00	
19 $\frac{1}{2}$ bbls. Atlas cement @ \$1.60	31.20	
		\$50.43
Labor of men .....	\$57.11	
Labor of teams .....	6.55	
		63.66
		\$114.09

Paving blocks unloaded and delivered by the Manchester Street Railway, cost of blocks charged to Street Railway and credit appears under the appropriation for paving streets, financial.

Total square yards done, 213.37, excavation done by the street railway.

The foregoing material and labor is charged to the Manchester Street Railway and credit for same appears under the appropriation for paving streets, financial.

## (554-556) MARKET STREET—Elm Street to Franklin Street.

## Cutting street to grade, average cut 0.37 feet:

Labor of men .....	\$142.94	
Labor of teams .....	107.95	
		\$250.69

## (557-564) Foundation:

429 bags Portland cement @ 47 $\frac{1}{4}$ c.....	\$202.70	
27 loads sand @ 10c. ....	2.70	
41 loads gravel @ 10c. ....	4.10	
14 loads stone @ \$2.00 .....	28.00	
Labor of men .....	179.73	
Labor of teams .....	115.10	
		\$532.23

## (565-570) Paving:

1,085.06 square yards of wood blocks @ \$2.10 .....	\$2,278.63	
151 bags Portland cement @ 47 $\frac{1}{4}$ c.....	71.34	
6 loads of sand @ 10c. ....	.60	
1 $\frac{1}{2}$ bbls. pitch @ \$6.00 .....	9.00	
1 $\frac{1}{2}$ bbls. tar @ \$2.75 .....	4.13	
Labor of men .....	291.38	
Labor of teams .....	62.24	
		\$2,717.32
		\$3,500.34



Length, 275.5 feet.  
 Width, 34 feet.  
 Square yards, 1,040.77.  
 Square yards, 44.29, at Franklin street.  
 Square yards, 1,085.06, total.  
 Cost per square yard, \$3.23.

## (608) PINE STREET—At Manchester Street.

## Paving Street Railway car tracks:

Labor of men .....	\$16.66	
Labor of teams .....	3.37	
	<hr/>	\$20.03
Sand .....		1.50
		<hr/>
		\$21.53

Charged to the Manchester Street Railway and credit for same appears under the appropriation for paving streets, financial.

## (787) SPRUCE STREET AND AUBURN STREET.

## Repairing streets:

Labor of men .....	\$9.62	
Labor of teams .....	47.25	
	<hr/>	\$56.87

## Picking stones:

Labor of men .....	\$29.75
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## Cleaning gutters and cesspools:

Labor of men .....	\$47.23
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## (586) VALLEY STREET—Maple to Wilson Streets.

## Moving street railway rails:

Labor of men .....	\$8.15
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Charged to the Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

## (609) VALLEY STREET—Maple to Wilson Streets.

## Taking away dirt and putting same on sidewalk:

Labor of men .....	\$80.36	
Labor of teams .....	43.74	
	<hr/>	\$124.10

Charged to Manchester Street Railway and credit appears under the appropriation for paving streets, financial.

## (609) VALLEY STREET—Maple to Wilson Streets.

## Grading sidewalk:

Labor of men .....	\$22.31
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(588) VALLEY STREET—Maple to Wilson Streets, Including Curve,  
Between Tracks, Rails, and 18 Inches Outside Each Outer Rail.

To making bed, laying and ramming paving, all paving (sand joints) and sand de- livered on the line of work by the Manchester Street Railway; 2,395.6 sq. yds. @ 25c. per sq. yd.....			\$598.90	
By labor (furnished and paid by city).....			65.57	
				<hr/>
				\$533.33

Charged to Manchester Street Railway and credit appears under the  
appropriation for paving streets, financial.

## GUTTERS (New).

STREET.	Location.	Length.	Width.	Square yards.	Labor.
Ash .....	Pearl to Orange at Gale home .....	261.5	3	87.16	\$20.67
Auburn .....	At Canton street .....	200	3	66.66	24.55
Fourth .....	South of Walker street to railroad .....	112	3	37.33	39.45
Franklin .....	Granite to south side of West Cedar .....	620	1.5	103.33	41.37
Front, east side .....	Amoskeag street to schoolhouse .....	320	3	106.66	24.25
Front, west side .....	Riverside hose house to Goff's hall .....	550	3	183.33	41.68
Lincoln, west side .....	Hanover, northerly .....	270	3	80.00	18.50
Linden, east side .....	Prospect, northerly .....	138.06	3	53.11	12.29
Maple .....	Pearl to Orange at Gale home .....	261.5	3	87.16	20.66
Maple .....	Harvard, northerly .....	66.25	3	22.08	5.30
Market, north side .....	Franklin, westerly to Hampshire lane .....	50	3	16.66	5.60
Orange .....	Ash to Maple at Gale home .....	220	3	73.33	17.39
Pearl .....	Ash to Maple at Gale home .....	220	3	73.33	17.38
Pine west back .....	High to High south back .....	123.70	2.25	30.93	14.10
Porter avenue .....	Bet. Amherst and Concord at No. 19 .....	115.50	3	38.50	11.50
Valley .....	Maple to Wilson .....	2,426	1.5	404.30	143.69
Average cost per lineal foot, \$0.076.		5,974.51		1,473.87	\$458.38
Average cost per square yard, \$0.311.					

## GUTTERS (Relaid).

STREET.	Location.	Length.	Width.	Square yards.	Labor.
Amoskeag .....	First to Front.....	600	3	200	\$76.34
Auburn, south side .....	Pine to Willow .....	610.7	3	203.56	56.77
" (West) north side.....	In front of American Exp. Co.'s stable	20	3	6.66	3.25
Bay .....	Between Clarke and Carpenter .....	50	3	16.66	4.03
Chestnut .....	Merrimack to Auburn.....	2,560	3	853.33	345.39
Concord .....	Elm to Nutfield lane.....	200	3	66.66	81.35
" .....	Maple, westerly, in front of Corey's neale works .....	110	3	26.66	8.63
" north side .....	Between Ashland and Hall at Dr. Mar- den's .....	139.8	3	46.6	28.30
Front .....	Black brook to Goffstown road .....	3,318	3	1,106	277.89
" .....	Goffstown road to schoolhouse .....	600	3	200	76.34
Goffstown road.....	Front, westerly.....	130	6	86.66	99.60
Hanover, north side.....	Lincoln, westerly.....	100	3	33.33	7.31
Main .....	Fire King engine house to McGregor	1,750	3	583.33	401.93
North, south side .....	Between Liberty and Union.....	26	3	8.71	3.68
" .....	Central to Hanover.....	1,560	3	520	228.67
Pine .....	Auburn to Valley cemetery gate.....	558	3	186	32.27
" west side .....	Between Beech and Union.....	113.65	3	37.88	10.69
Spruce, south side .....					
		11,446.15		4,182.04	\$1,742.24

Average cost per lineal foot, \$0.152.

Average cost per square yard, \$0.388.

**Board of Street and Park Commissioners in account  
with the Appropriation for Macadamizing Streets.**

By steam roller, etc., Buffalo Steam Roller Company:		
1 15-ton steam road roller, complete.....	\$3,500.00	
1 scraper bracket for road roller .....	2.50	
2 fittings for attaching inspector's gauge	2.00	
2 comb. siphons and steam cocks.....	5.00	
6 fusible plugs .....	4.50	
1 yoke for ten-ton roller .....	\$80.00	
To express on same .....	7.65	
	<hr/>	
	72.35	
		<hr/>
		\$3,586.35
By fuel, L. B. Bodwell & Co.:		
73.259 tons Cumberland coal @ \$4.65.....	\$340.65	
1 ton steam coal @ \$5.00 .....	5.00	
4.75 tons steam coal @ \$5.50 .....	26.13	
	<hr/>	
		\$371.78
By repairs:		
Pike & Heald Co. ....	\$9.13	
American Locomotive Co. (boiler) .....	17.00	
Drew Machinery Agency (boiler).....	7.75	
Good Roads Machinery Co. (crusher).....	67.40	
	<hr/>	
		\$101.28
By supplies:		
John B. Varick Co. (shovels, picks, etc.).....		\$112.50
By oil:		
Vacuum Oil Co. ....	\$74.80	
John B. Varick Co. ....	1.60	
Arthur A. Warren .....	5.00	
	<hr/>	
		\$81.40
By water:		
Board of Water Commissioners .....		\$17.50
By circuit breaker (200 Amp. 600 volt):		
Manchester Traction, Light & Power Co..	\$46.75	
Manchester Traction, Light & Power Co.,		
labor .....	11.18	
	<hr/>	
		\$58.23
By freight:		
Boston & Maine Railroad .....		\$0.82
By labor:		
Payroll Division No. 10 (1-10).....		\$2,668.38
		<hr/>
		\$6,998.24
Amoskeag street, Front street, and Goffstown road (labor and teams), the itemized operations appear under repairs of highways.		
To appropriation for macadamizing streets	\$6,000.00	
Overdraft .....	998.24	
	<hr/>	
	\$6,998.24	<hr/>
		\$6,998.24

# **Board of Street and Park Commissioners in account with the Appropriation for Grading for Concrete.**

## **By curbing and circles:**

Paradise & Dionne .....	\$350.75	
To 1% discount for cash.....	3.51	
	<hr/>	\$347.24
Charles A. Bailey .....		110.40

**\$457.64**

## **By supplies:**

John B. Varick Co. ....	\$7.65	
Pike & Heald Co. ....	.70	

**\$8.35**

## **By kerosene oil:**

Arthur A. Warren .....		\$10.00
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## **By lumber and labor:**

The J. H. Mendell Co. ....		\$1.89
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## **By miscellaneous charges:**

Robie Consolidated Concrete Co., 2.444 sq. yds. @ 50c. per sq. yd. ....	\$1.22	
Boston & Maine railroad, freight.....	.25	
	<hr/>	\$1.47

## **By labor:**

Payroll Division No. 2 .....	\$2,209.11	
Payroll Division No. 10 .....	180.91	
Payroll Division No. 7 .....	67.25	
	<hr/>	\$2,457.27

**\$2,936.62**

To appropriation for grading for concrete.. \$3,500.00

By balance unexpended ..... 563.38

**\$3,500.00      \$3,500.00**



## CORNER CURBS.

STREET.	Location.	Size of circle.	Cost of circle.	Labor.	Total cost.	Length.
Ash .....	Pearl, northeast corner, at Gale Home. ....	10	\$9.42	\$4.10	\$13.52	15.708
" .....	Orange, southeast corner, at Gale Home. ....	10	9.42	4.10	13.52	15.708
Canal .....	Central ("West"), southeast corner. ....	20.786	22.44	8.52	30.96	37.396
" .....	" " south back, northeast and south-east corners. ....	3	5.66	2.72	8.38	9.425
" .....	Central (West), 80 feet southerly (2). ....	3	5.66	2.72	8.38	9.425
" .....	Denot, northeast corner. ....	10	9.42	4.10	13.52	13.439
Central (West) .....	Canal, 107 feet easterly. ....	3	2.83	1.36	4.19	4.712
" .....	" " 87 feet easterly. ....	3	2.83	1.36	4.19	4.712
Chestnut .....	Auburn, northeast and northwest corners. ....	10	18.84	5.62	24.46	31.416
" .....	Cedar, northeast corner. ....	10	9.42	2.50	11.92	15.708
" .....	Lake Avenue, southeast corner. ....	10	9.42	2.50	11.92	15.708
" .....	Central south back, southeast and northeast cor-ners. ....	3	5.66	2.72	8.38	9.425
" .....	" " southeast corner. ....	10	9.42	4.10	13.52	15.708
" .....	" " northeast corner. ....	10	9.42	4.10	13.52	15.708
" .....	Merrimack, southwest corner. ....	10	9.42	2.50	11.92	15.708
" .....	At Corey's Needle Works. ....	10	9.42	4.10	13.52	15.708
*Concord .....	Amoskeag. ....	3	7.54	1.36	8.90	4.712
Eddy road .....	Hanover. ....	8	11.31	3.80	15.11	12.566
Elm .....	Stark to Market (5). ....	12	14.15	12.98	27.13	18.850
Hampshire lane, east side .....	Lincoln, northwest corner. ....	10	9.42	4.10	13.52	15.708
Hanover .....	Lincoln, 84 feet westerly (Charge J. W. Mudget). ....	3	5.66	2.72	8.38	9.425
Hayward .....	Porter. ....	8	7.54	3.80	11.34	12.566
Kelley .....	Rimmon, southwest corner. ....	8	7.54	11.25	18.79	12.566
Linden .....	Prospect, northeast corner. ....	10	9.42	4.10	13.52	15.708
" .....	Harrison, southeast corner. ....	10	9.42	4.10	13.52	15.708
" .....	Between Prospect and Harrison (2). ....	2	3.77	2.72	6.49	6.283
Maple .....	Pearl, northwest corner, at Gale Home. ....	10	9.42	4.10	13.52	15.708
" .....	Orange, southwest corner, at Gale Home. ....	10	9.42	4.10	13.52	15.708
" .....	Between Pearl and Orange, at Gale Home (2). ....	3	5.66	2.72	8.38	9.425
" .....	Harvard, northwest corner. ....	10	9.42	4.10	13.52	15.708
Market .....	Hampshire lane, northeast, northwest, south-east and southwest corners. ....	12	11.31	12.98	24.29	18.850
" .....	" .....	3	11.32	5.44	16.76	18.848

\* Reset.

CORNER CURBS.—*Concluded.*

STREET.	Location.	Size of circle.	Cost of circle.	Labor	Total cost.	Length.
Market .....	Franklin, southeast corner .....	12	11.51	12.98	24.29	18.850
" .....	" southwest corner .....	8	7.54	3.60	11.14	12.566
" .....	1st back street west of Franklin, northeast corner .....	3	2.83	1.36	4.19	4.712
Parker avenue, east side .....	Parker, 75 feet northerly (2) .....	2	5.66	2.72	8.38	9.425
Pine .....	Merrimack, southeast corner .....	10	9.42	3.80	13.22	15.708
" .....	" south back, northeast corner .....	3	2.83	1.36	4.19	4.712
" .....	Merrill, southeast corner .....	10	9.42	4.10	13.52	15.708
" .....	" south back, northeast corner .....	3	2.83	1.36	4.19	4.712
" .....	Merrimack, northeast corner .....	10	9.42	4.10	13.52	15.708
" .....	Monadnock lane, southeast corner .....	3	2.83	1.36	4.19	4.712
" .....	Auburn, southwest corner .....	10	9.42	4.10	13.52	15.708
" .....	At cemetery gate .....	3	2.83	1.38	4.21	4.712
Porter avenue .....	Between Amherst and Concord at No. 19 (2) .....	3	5.66	2.72	8.38	9.425
Somerville .....	Jewett, northeast corner .....	8	7.54	5.85	13.39	12.566
Spruce .....	Union, southwest corner .....	10	9.42	4.10	13.52	15.708
Walnut east back .....	Blodget, southwest corner .....	3	2.83	1.36	4.19	4.712
			\$402.23	\$207.04	\$609.27	672.865

Average cost per lineal foot, \$0.905.

## CURBING.

STREET.	Location.	Length.	Labor.
Ash, east side (Gale Home) (843)	Pearl to Orange	261.50	\$27.43
Auburn, north side (820)	Between Pine and Union	50.00	7.50
" " (821)	West of Chestnut	40.40	2.92
" " (822)	East and west of Chestnut	25.45	4.17
Bay, east side (823)	Between Clarke and Carpenter	50.00	10.00
Central south back, north side (824)	Chestnut, easterly	60.00	13.87
Central south back, south side (825)	"	60.30	10.05
Chestnut, east side (826)	Central to Lake avenue	198.20	39.20
Concord, north side (827)	Between Nashua & Maple (Corey's Needle Wks)	117.40	4.49
Canal, east side (828, 831, 832 and 872)	West Central to Depot	141.82	23.86
Central, West, south side (828, 831, 832 and 872)	Canal, easterly	90.26	15.18
" " " back, north side (828, 831, 832 & 872)	"	88.00	1.44
" " " " south side (828, 831, 832 & 872)	"	7.00	.12
Chestnut, east side (829)	Opposite Spruce	50.00	6.87
Depot, north side (828, 831, 832 and 872)	Between Merrimack and Central	50.00	4.16
Hampshire lane, both sides (866, 868 and 870)	Canal to Franklin west back	364.29	61.27
Hanover, north side (832)	Stark to south of Market	602.50	57.20
Harrison, north side (844-846)	Lincoln, westerly	154.08	18.95
Harvard, south side (836)	Linden, easterly	90.20	8.65
Jewett, west side (862)	Porter, westerly	50.00	6.10
Lincoln, west side (833)	Somerville, northerly	8.00	3.90
Linden, east side (844-846)	Hanover, northerly	194.65	24.28
Market, both sides (863-868)	Harrison to Prospect	216.00	16.55
" north side (850)	Elm to Franklin	450.00	119.70
Massabesic, west side (862)	Franklin to first back street west	47.00	6.64
Maple, west side (843)	Spruce, southerly	82.00	8.75
Merrimack south back, north side (857)	Pearl to Orange (Gale Home)	225.24	23.73
Merrill south back, north side (859-860)	Pine, easterly	88.15	8.62
Orange, south side (843)	"	8.00	.50
Parker avenue, east side (834)	Ash to Maple	222.00	23.07
Pearl, north side (843)	North of Parker, northerly	16.00	5.78
Pine, east side (858)	Ash to Maple	222.00	23.07
" " (859-860)	Merrimack to Merrimack south back	90.20	16.19
" " (861)	Merrill to Merrill south back	100.00	6.16
Porter avenue, east side (835)	Merrimack to Monadnock lane	124.00	11.79
	Between Amherst and Concord at No. 19	33.10	11.03

CURBING.—*Concluded.*

STREET.	Location.	Length.	Labor.
Porter, west side (836).....	Hayward, southerly .....	50.00	\$5.10
Rimmon, west side (848).....	Between Kelley and Bremer .....	50.00	7.50
" " (847).....	" " .....	50.00	24.50
" " (849).....	" " .....	150.00	25.50
Spruce, south side (837-838).....	North of Bremer .....	48.80	7.36
" " (839).....	Union, westerly .....	113.65	15.06
Union, west side (837-838).....	West of Beech, westerly .....	33.00	4.97
" " (840).....	Spruce, southerly .....	38.00	4.30
Walnut east back, west side (841).....	Between Webster & Appleton at E. W. Perkins' .....	68.33	6.84
Welch avenue, south side (842).....	Blodget, southerly .....	11.75	10.13
Auburn, south side (874).....	Pine to Willow .....	5,350.27	\$753.45
Maple, west side (871).....	Harvard, northerly .....	580.00	45.98
Pine, west side (875-877).....	Auburn to concrete wall and cemetery gate .....	66.00	8.10
	Auburn to concrete wall and concrete wall to .....	335.00	48.92
		6,331.27	\$856.45



## ELM AND MARKET STREETS—At City Hall.

Building wall around south side of city hall to cover foundation rough work on account of lowering grade of Market street, bricking up six area windows, laying granolithic sidewalk around city hall. Cement concrete curb around south side of city hall (808-809):

130 feet of 2"x10" spruce @		
\$25.00 per M. ....	\$2.25	
Cost of planing .....	.29	
30 bags Portland cement @ 40c.	12.00	
0.41 cu. yd. of marble chips @		
\$12.96 .....	5.31	
0.23 cu. yd. of pea gravel @		
\$2.55 .....	.58	
2.78 cu. yds. of crushed stone		
@ \$2.55 .....	7.08	
2.50 cu. yds. of sand @ 10c...	.25	
		\$28.76
Bricking up window areas:		
2,750 brick @ \$9.00 per M.....	\$24.75	
21 bags of Portland cement @		
40c. ....	8.40	
		\$33.15
Labor of men .....	\$73.81	
Labor of teams .....	3.50	
		\$77.31
Repairing brick walk and lowering win-		
dow area (Patten block) (796).....		\$8.08
This change was necessary on account of		
the new sidewalk in front of city hall.		
Setting hitching posts in Hampshire lane		
(rear of city hall) (795) .....	\$8.00	
		\$155.30
Hauling 403 bags of cement, 5 loads		
crushed stone, 12 loads gravel, 10 loads		
sand for city hall sidewalk (797).....		\$13.04
403 bags Atlas cement @ 40c..	\$161.20	
10 tons broken stone @ \$1.00..	10.00	
24 tons broken stone (gravel)	24.00	
10 loads sand .....	10.00	
		\$205.20
Labor of men .....	\$31.50	
Labor of sidewalk man (ma-		
son) .....	60.20	
		\$91.70
		\$309.94
		\$465.24



Elm street, total sq. yds. granolithic sidewalk laid.....	178.58
Market street, total sq. yds. granolithic sidewalk laid..	179.98
	<hr/>
	358.56

Cost per square yard, including all work occasioned by change,  
\$1.30.

PINE STREET—West Side Auburn, South of Cemetery Gate.

Building concrete retaining wall on curb line, iron rail fence,  
concrete wall under cemetery fence, furnishing curbing, setting,  
grading walks and painting fence.

Excavation (881-883), carpenter work (882), placing concrete (884-885),  
grading walks (886-887), erecting, repairing and painting fence  
(888-890):

Labor of men and teams.....	\$124.25	
Cement .....	\$200.00	
Broken stone .....	70.00	
Sand .....	9.02	
Coal .....	11.00	
	<hr/>	290.02
Iron rail fence .....	\$137.82	
Curbing .....	114.00	
	<hr/>	251.82
		<hr/>
		\$966.09

Charged to the Valley cemetery and credit for same appears under  
the appropriation for repairs of highways, financial, and is part of  
the item, \$1,173.05; \$100.06 was for lumber, \$106.00 for carpenter work  
(see repairs of highways, financial, under Valley cemetery).

(873) PINE STREET—West Side from 275 Feet South of Auburn Street  
Southerly to Cemetery Gate.

Removing trees:

Labor of men .....	\$15.25	
Labor of teams .....	5.05	
	<hr/>	\$20.30

(798) Moving cesspool stones and corner curbs down to new city yard:

Labor of men and teams.....	\$18.00
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**Board of Street and Park Commissioners in account  
with the Appropriation for Scavenger Service.**

By garbage contract:

W. H. Bickford .....	\$1,922.64
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By inspection of scavenger:

Levi J. Proctor .....	\$700.25
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## By supplies:

John B. Varick Co., shovels, forks, etc....	\$41.10	
Head & Dowst Co., lumber.....	1.44	
Arthur A. Warren, oil .....	5.00	
Pike & Heald Co., couplings, etc.....	.39	
John B. Clarke Co., scavenger blanks.....	40.60	
		<hr/>
		\$88.53

## By repairs:

S. P. Dodge Co., repairs on wagons.....	\$5.25
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## By labor:

Ranno Saddlery Co., stitching canvas.....	\$9.00
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## By new wagon:

Watson Wagon Co., 1 5-yd. Watson dump wagon .....	\$221.52	
To 3% discount for cash .....	6.65	
		<hr/>
		\$214.87

## By freight (on dump wagon):

Boston & Maine railroad .....	\$11.51
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## By labor:

Payroll Division No. 2 .....	\$15,651.39	
Payroll Division No. 7 .....	2,580.58	
Payroll Division No. 10 .....	4,541.08	
		<hr/>
		\$22,773.05

		<hr/>	\$25,725.10
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To appropriation for scavenger service.....	\$25,000.00	
Overdraft .....	725.10	
		<hr/>
	\$25,725.10	\$25,725.10

## ITEMIZED OPERATIONS.

The scavenger service was placed under the charge and direction of an inspector, February 24, 1908, and beginning with that date daily reports were turned in to the office from each route, giving the following information: The number of the route, date, number of wagon (each wagon is numbered and capacity known), horse or horses, driver (name), and helper or helpers (name or names), time of leaving stables, A. M. and P. M., time returning to stables, A. M. and P. M., number of loads both A. M. and P. M., and where dumped.

The city is divided into routes including territory as listed and are covered on days as indicated in the following schedule:

Route No. 1 included the territory bounded by Harrison, Elm, West Salmon, River road, Rowell, Union, Webster, and Union east back streets.

This route is collected Mondays and Thursdays and requires two one-horse teams with one helper on each team.

Route No. 2 includes the territory bounded by Orange, Elm, Harrison, Union east back, Webster, and Walnut east back streets.

This route is collected Tuesdays and Fridays and requires two one-horse teams with one helper on each team.

Route No. 3 includes the territory bounded by Orange, Walnut east back, Webster, Beech east back, Sagamore, and Linden streets.

This route is collected Wednesdays and Saturdays and requires two one-horse teams with one helper on each team.

Route No. 4 includes the territory bounded by Bridge, Beech, Orange, and Belmont streets.

This route is collected Mondays and requires one two-horse team with two helpers.

Route No. 5 includes the territory bounded by Concord, Nashua, Bridge, and Highland streets.

This route is collected Thursdays and requires one two-horse team and two helpers.

Route No. 6 includes the territory bounded by Nashua, Ash, and Bridge streets.

Route No. 7 includes the territory bounded by Concord, Union, Bridge, and Ash streets.

Route No. 8 includes the territory bounded by Concord, Chestnut, Orange, Beech, Bridge, and Union streets.

Routes Nos. 6, 7, and 8 are collected Tuesdays and Fridays and require one two-horse team and two helpers.

Route No. 9 includes the territory bounded by Concord, Elm, Orange, and Chestnut streets.

This route is collected Wednesdays and Saturdays and requires one two-horse team and two helpers.

Route No. 10 includes the territory bounded by Beech, Concord, Beacon, Hanover, Hall, and Manchester streets.

This route is collected Mondays and Thursdays and requires one one-horse team and one helper.

Route No. 11 includes the territory bounded by Manchester, Union, Concord, and Beech streets.

This route is collected Tuesdays and Fridays and requires one one-horse team and one helper.

Route No. 12 includes the territory bounded by Manchester, Elm, Concord, and Chestnut streets and is now included in Route No. 23.

Route No. 13 includes the territory bounded by Hall, Hanover, Beacon, Merrimack, Cass streets, and Lake avenue.

This route is collected Mondays and Fridays and requires one one-horse team and one helper.

Route No. 14 includes the territory bounded by Beech, Manchester, Hall, Lake avenue, and Wilson, and Lake avenue south back streets.

This route is collected Tuesdays and requires one one-horse team and one helper.

Route No. 15 includes the territory bounded by Manchester, Beech, Laurel, Chestnut, Merrimack, and Elm streets.

This route is collected Tuesdays and Fridays and requires one one-horse team and one helper and one two-horse team and two helpers.

Route No. 16 includes the territory bounded by Lake avenue, Elm, Central, Chestnut, Laurel, and Beech streets.

This route is collected Wednesdays and Saturdays and requires one one-horse team and one helper and one two-horse team and two helpers.

Route No. 17 includes the territory bounded by Lake avenue south back, Beech, Wilson, Spruce south back, Lincoln, Cedar south back, Maple, and Auburn south back streets.

This route is collected Wednesdays and requires one one-horse team and one helper.

Route No. 18 includes the territory bounded by Lake avenue, Beech, Auburn, and Elm streets.

This route is collected Mondays and Thursdays and requires one one-horse team and one helper and one two-horse team and two helpers.

Route No. 19 includes the territory bounded by Pine, Auburn, Beech, and Bell streets, also Calef road, Baker, Brown avenue, Elm, Auburn, Willow, Valley, Pine, and Hayward streets.

This route is collected Saturdays and requires one one-horse team and one helper.

Routes Nos. 20 and 21 include the territory west of Elm street to the corporation district from Auburn street to Langdon street.

This route is collected daily and requires one two-horse team and two helpers.

Route No. 22 includes the territory bounded by Chestnut, Concord, Union, and Manchester streets.

This route is collected Wednesdays and Saturdays and requires one one-horse team and one helper.

Route No. 23 includes the territory east of Elm street from Merrimack common to Orange street, including Route No. 12 and a part of Route No. 9.

This route is collected daily and requires one two-horse team and two helpers.

Route No. 31 includes the territory bounded by the Piscataquog river, Merrimack river, Schiller street, Second, Woodbury and South Main streets.

This route is collected Fridays and requires one one-horse team and one helper.

Route No. 32 includes the territory bounded by South Main street to south of Harvell street, Donald and Milford streets.

This route is collected Wednesdays and requires one one-horse team and one helper.

Route No. 33 includes the territory bounded by Milford, Sylvester, Avon, Charleston avenue, Mast street to Brock street, Mast road and South Main streets.

This route is collected Wednesdays and requires one one-horse team and one helper.

Route No. 34 includes the territory bounded by Turner street, 'Squog river, School and South Main streets.

This route is collected Mondays and requires one one-horse team and one helper.

Route No. 35 includes the territory bounded by Turner, School, both sides of South Main street to 'Squog river, 'Squog river to Conant and Granite streets.

This route is collected Tuesdays, Fridays and Saturdays and requires one one-horse team and one helper.

Route No. 36 includes the territory bounded by 'Squog river, Granite street and South Main street.

This route is collected Tuesdays and requires one one-horse team and one helper.

Route No. 37 includes the territory bounded by Granite, Railroad, Conant, and Main streets.

This route is collected Thursdays and requires one one-horse team and one helper.

Route No. 38 includes the territory bounded by Railroad, Conant, Notre Dame avenue, Adams, Gates, Blucher streets, and includes the whole of Whittemore Flats.

This route is collected Mondays and Thursdays or Fridays and requires one one-horse team and one helper.

Route No. 39 includes the territory bounded by Conant, Notre Dame avenue, Sullivan, Cartier, Kelley, Coolidge avenue, Amory, and Main streets.

This route is collected Mondays and requires one one-horse team and one helper.

Route No. 40 includes the territory bounded by Main, Amory, and McGregor streets.

This route is collected daily and requires one one-horse team and one helper.

Route No. 41 includes the territory bounded by McGregor, Amory, and Main streets, north of Amory street.

This route is collected Fridays and requires one one-horse team and one helper.

Route No. 42 includes the territory bounded by Cartier, Amory, and Columbus avenue.

This route is collected Tuesdays and requires one one-horse team and one helper.

Route No. 43 includes the territory bounded by Cartier, Kelley, Montgomery, and Amory streets.



This route is collected Saturdays and requires one one-horse team and one helper.

Route No. 44 includes the territory bounded by Coolidge avenue, Mason, Montgomery, and Kelley streets.

This route is collected Wednesdays and requires one one-horse team and one helper.

Route No. 45 includes the territory bounded as follows: Montgomery street westerly to Kimball street, and the residential section south of Amory street and north of Kelley street.

This route is collected Thursdays and requires one one-horse team and one helper.

Route No. 46 includes the residential section of Amoskeag.

This route is collected Wednesdays and requires one one-horse team and one helper.

Route No. 47 includes the territory bounded by Valley, Wilson, Cilley road, Pine, and Willow streets.

This route is collected Tuesdays and requires one two-horse team and two helpers.

Route No. 48 includes the territory bounded by Wilson, Taylor, and Valley streets and Cilley road.

This route is collected Thursdays and requires one one-horse team and two helpers.

Route No. 49 includes the territory bounded by Wilson, Spruce, Massabesic, Belmont, Summer, Dearborn, Taylor, and Valley streets.

This route is collected Saturdays and requires one two-horse team and two helpers.

Route No. 50 includes the territory bounded by Wilson street, Lake avenue, Belmont, Massabesic, and Spruce streets.

This route is collected Wednesdays and Saturdays and requires one two-horse team and two helpers.

Route No. 51 includes the territory bounded by Belmont, Summer, Dearborn, Taylor, Massabesic, Hall road and Lake avenue.

This route is collected Wednesdays and requires one two-horse team and two helpers.

Route No. 52 includes the territory bounded by Taylor, Massabesic, Mammoth road, Young, Somerville, Jewett, and Cilley road.

This route is collected Mondays and requires one two-horse team and two helpers.

Route No. 53 includes the territory bounded by Hall road, Lake avenue, Mammoth road, Portsmouth railroad, Page street, Candia road, and Massabesic street.

This route is collected Fridays and requires one two-horse team and two helpers.

The dumps used during the year were as follows:

Putnam street dump, which required the services, the first part of the year, of two men, but later in the year one man was transferred to the Wentworth street dump.



Wentworth street dump, which required the services, the first part of the year, of one man, and the latter part of the year, two men.

Lincoln street dump, which required the services of one man.

Somerville street dump, which required the services of one man.

Beech street dump, which was attended to by helpers of teams.

Some other dumps were used occasionally, but the bulk of the collection was dumped in the following five dumps, viz.: Wentworth street, Putnam street, Lincoln street, Somerville street, and Beech street, and required the constant services and attendance of five men.

In Division No. 2 there are employed five one-horse teams and five helpers, also four two-horse teams and eight helpers.

In Division No. 10 there are employed two one-horse teams and two helpers all the time, and one one-horse team and one helper about one third of the time.

In Division No. 7 there are employed one two-horse team and two helpers all the time.

Seventeen horses, twelve wagons, twelve drivers, and seventeen helpers and five dump men, or seventeen horses and thirty-four men and one inspector, employed all the time on scavenger service.

(992) HANOVER STREET—At Opera House.

Cleaning ashes out of cellar:

Labor of men .....	\$11.37	
Labor of teams .....	9.00	
		<hr/>
8 loads of 2 cu. yds. each.		\$20.37
8 loads of 4 cu. yds. each.		

Charged to W. M. Parker and credit for same will appear in 1909 report.

SUMMARY OF SCAVENGER WORK FOR 43 WEEKS ENDING DE-  
CEMBER 19, 1908.

Route.	Labor.	Teams.	Total cost.	Loads.	Cubic Yds.
1	\$657.98	\$195.20	\$853.18	1,110	2,221.19
2	617.33	111.93	789.26	1,032	1,935.61
3	598.42	163.22	761.64	1,038	1,918.00
4	255.20	96.00	351.20	272	941.94
5	245.18	82.87	328.05	259	915.01
6 & 8	506.93	168.86	675.82	475	1,586.06
7	105.31	65.01	170.32	133	318.84
9	519.99	172.95	692.94	466	1,588.17
10	306.13	92.30	398.43	534	926.21
11	259.50	70.74	330.24	409	718.92
12	30.19	9.07	39.26	38	86.18
12 & 22	7.30	2.00	9.30	10	18.10
13	388.52	168.56	557.09	574	1,069.26
14	199.95	91.14	291.09	328	587.38
15	651.31	445.76	1,097.07	640	1,785.94
16	671.58	451.16	1,122.74	593	1,674.72
17	293.00	109.64	402.64	508	928.47
18	649.31	396.62	1,045.93	642	1,746.42
19	198.81	94.31	293.12	264	554.90
20 & 21	1,302.36	482.26	1,784.62	831	4,079.93
22	292.84	80.98	373.82	477	808.51
23	1,418.44	528.31	1,946.75	966	4,823.40
31	89.23	27.65	116.88	150	258.56
32	95.00	31.11	126.11	155	275.54
33	131.97	33.17	165.14	198	342.72
34	171.57	49.16	220.73	272	479.71
35	284.35	75.66	360.01	458	789.05
36	93.56	23.90	117.46	160	275.70
37	159.95	41.05	201.00	287	496.12
38	132.06	188.45	320.51	236	423.28
39	117.32	27.72	145.04	206	366.96
40	394.99	115.05	510.04	630	1,114.26
41	99.38	24.52	123.90	157	278.14
42	97.74	25.10	122.84	183	321.33
43	93.41	22.69	116.10	150	262.78
44	48.23	11.93	60.16	68	121.80
45	93.33	23.55	116.88	71	270.19
46	57.81	14.33	72.14	87	154.31
47	217.75	116.80	334.55	228	413.40
48	214.00	104.00	318.00	242	435.02
49	170.55	86.18	256.73	176	324.60
51	199.55	106.75	306.30	273	488.78
52	247.55	124.50	372.05	330	589.90
53	180.54	80.00	260.54	186	339.80
5 dump men ....	\$13,565.43	\$5,492.16	\$19,057.59	16,502	41,847.01
	1,721.81		1,721.81		
	\$15,287.24	\$5,492.16	\$20,779.40	16,502	41,847.01

Average number of cubic yards collected and hauled to dump, per week, 973.18; per day, 162.19.

Average number of loads collected and hauled to dump, per week, 383; per day, 63.83.

Average cost per cubic yard collecting and hauling to dump ..... \$0.455

Average cost per cubic yard caring for dumps..... .041

Total cost per cubic yard..... \$0.496

## AVERAGE HAULS.

To Wentworth street dump (from east side)  $1\frac{1}{2}$  miles.  
 To Wentworth street dump (from west side)  $\frac{1}{2}$  mile.  
 To Putnam street dump (from east side)  $1\frac{1}{4}$  miles.  
 To Putnam street dump (from west side)  $\frac{1}{2}$  mile.  
 To Beech street dump,  $\frac{3}{4}$  mile; Lincoln,  $\frac{3}{4}$  mile; Somerville street,  
 $\frac{3}{4}$  mile.

Board of Street and Park Commissioners in account  
 with the Appropriation for Street Sweeping.

By supplies:

J. L. & H. K. Potter:

1 No. 8127 7' Standard Studebaker street sweeper,  
 hickory broom and extra broom complete..... \$275.00

H. Thompson:

1 18" push broom.....	\$0.46	
1 handle and handle socket .....	.15	
1 scraper .....	.12	
13 doz. 18" brass and rattan push brooms		
@ \$5.50 .....	71.50	
6 doz. push broom handles @ 75c.....	4.50	
3 doz. patent handle sockets @ \$1.75....	5.25	
		81.98

A. B. Black:

6 Menzie's street cleaners (hokey carts)		
@ \$18.50 .....	\$111.00	
To freight .....	.96	
		110.04

The Sessions Foundry Co.:

6 sprockets for machine sweeper, S-50,		
150 lbs. @ \$0.0185.....	\$2.78	
13 hours' labor making pattern @ 45c..	5.85	
2 ft. pine lumber @ 9c.....	.18	
		8.81

John B. Varick Co.:

2 set $\frac{7}{8}$ " x 4" S. B. P. axles (for hokey		
carts) @ \$2.00.....	\$4.00	
2 set $\frac{7}{8}$ " x $\frac{1}{4}$ " steel tires, 90 lbs. @ $2\frac{1}{4}$ c..	2.03	
6 ash cans @ \$1.40.....	8.40	
		14.43

George W. Dodge Shoe Co.:

2 pair rubber boots (long) @ \$3.56.....	\$7.12	
2 pair rubber boots (short) @ \$3.06....	6.12	
		13.24

## By repairs:

## H. Thompson:

refilling 12 sweeper rolls with best German reeds, freight prepaid.....	\$195.00
2 new ropes for sweeper roll @ 38c.....	.76

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 \$195.76

## By freight:

## Boston &amp; Maine Railroad:

On one Watson wagon and parts from Canastota, N. Y.....	\$11.32
On one Studebaker dump wagon, one sweeping machine, 1 pole, 1 dumpcart	16.50
On one extra broom.....	.35
On 6 frames, 6 cans, 6 scrapers and 12 wheels .....	.96

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 29.13

## By labor:

Payroll Division No. 2.....	\$5,749.42
Payroll Division* No. 10.....	1,897.15

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 7,646.57

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 \$8,374.96

To appropriation for street sweeping.....	\$6,000.00
overdraft .....	2,374.96

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 \$8,374.96

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 \$8,374.96

# ITEMIZED OPERATIONS. (HOKEY CART PATROL).

## STREET AND PARK COMMISSIONERS.

613

Route.	Location.	Limits.	Pavement.	Square yards.	No. of days covered.	Total cost.	Cost per square yd. per day.	Cost per square yd. for season.	Cost per square yd.
1	Granite..... South Main.....	East end of Granite bridge to Granite Sq. Granite Sq. to North Weare R. R. tracks..	Granite block and tar concrete Tar concrete.....	6,222 3,700	101 101	\$111.37 66.23	\$0.0178	\$0.00017	
2	Granite.....	B. & M. R. R. station to east end Granite bridge.....	Granite block.....	3,555	243	425 83	.1197	.00049	
3	Elm.....	Auburn to Central.....	" ".....	8,537	170	297.34	.0348	.00020	
4	"..... West Merrimack.	Central to Manchester..... Elm to Franklin.....	" "..... Tar concrete.....	6,044 880	320 320	488.62 71.09	.0808	.00025	
5	Elm.....	Manchester to Lowell.....	Granite block.....	9,444	279	488.81	.0517	.00019	
6	".....	Lowell to Orange.....	" ".....	8,311	215	376.95	.0453	.00021	
7	Hanover..... Amherst..... Concord..... Vine.....	Elm to Pine..... " Vine..... " "..... Amherst to Concord.....	Tar concrete..... " "..... " "..... " ".....	3,306 746 746 1,733	252 252 252 252	223.71 50.46 50.46 117.22	.0676	.00027	
8	Chestnut.....	Manchester to Lowell.....	" ".....	4,133	222	380.08	.0941	.00042	
9	Manchester..... Merrimack..... Chestnut.....	Elm to Chestnut..... " "..... Merrimack to Manchester.....	" "..... " "..... " ".....	2,026 2,153 930	206 206 206	142.51 151.51 65.86	.0704	.00034	
				62,466					
						\$3,517.05			

Average cost per square yard for the season, \$0.0553.

Average cost per square yard per day, \$0.00028.

Each of the nine routes above listed were patrolled by one man with "hokey" cart, picking up and removing all litter, dirt, droppings, paper, etc.

## HOKEY CART PATROL.—Continued.

Route.	Location.	Limits.	Pavement.	Square yards.	No. of days covered.	Total cost.	Average cost per square y'd for season.	Average cost per square yard per day.
10	Hampshire lane.	West Cedar to Water.....	Tar concrete and block .....	3,811	100	\$175.29	\$0.0459	\$0.000459
11	Nutfield lane .....	Monadnock lane to Lowell.....	" " .....	2,100	158	276.21	.0866	.000540
	Church* .....	Lowell to Bridge.....	Block .....	388	158			
	North Church*..	Bridge to Pearl south back .....	" .....	790	158			
				6,999		\$451.50		

\* Very difficult to keep clean.

Average cost per square yard for the season, \$0.06625.

Average cost per square yard per day, \$0.000499.

Each of the routes above listed were patrolled by one man sweeping all litter, dirt, droppings, paper, etc., into piles which were removed by the scavenger teams.

One man patrolled the section between Auburn, Elm, Orange and Union streets picking up paper. Cost \$375.94 for the season.



## STREET SWEEPING WITH MACHINE.

(Once over.)

## STREET AND PARK COMMISSIONERS

615

LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Cost.
Elm .....	Valley to Langdon.....	Granite block, block & tar concrete..	48,692	\$27.40
Hanover .....	Elm to Pine .....	Tar concrete .....	3,306	2.43
Manchester .....	Union to Beech .....	Tar concrete .....	1,966	2.97
Merrimack .....	Elm to Chestnut.....	Tar concrete .....	2,026	2.43
Merrimack .....	Beech to Maple.....	Tar concrete .....	3,072	1.98
Manhattan lane .....	Central to Lake ave. south back.....	Tar concrete .....	2,000	2.25
Nutfield lane .....	Monadnock lane to Lowell.....	Block .....	606	.71
Church .....	Lowell to Birch.....	Block and tar concrete.....	2,100	2.49
North Church .....	Bridge to Pearl.....	Block .....	622	.73
Derryfield lane .....	Nutfield lane to Chestnut.....	Block .....	406	.55
Lonadonderry lane .....	Nutfield lane to Pine.....	Block .....	669	.78
Monadnock lane .....	Bridge, southerly .....	Block .....	1,244	.78
Bridge place .....	North Church, easterly .....	Block .....	233	1.47
Pearl south back .....	Manhattan lane, easterly.....	Block .....	116	.97
Central south back .....	Manhattan lane, easterly.....	Block .....	233	.13
Lake avenue south back.....	West Auburn to Spring.....	Block .....	155	.27
Hampshire lane .....	Franklin to Canal.....	Block and tar concrete.....	4,558	.18
Granite south back .....	Central to Spruce.....	Block .....	622	5.59
Pine .....	Merrimack to Lowell.....	Tar concrete .....	1,800	.76
Chestnut .....	Lake avenue to Lake avenue.....	Tar concrete .....	5,116	1.53
Union .....	Merrimack to Lake avenue.....	Tar concrete and macadam.....	7,500	3.91
Maple .....	Elm to Birch .....	Tar concrete .....	2,737	9.18
Bridge .....	Elm to Manhattan lane.....	Tar concrete .....	1,306	1.99
Central .....	Elm to Franklin .....	Block .....	377	.61
Depot .....	Elm to Chestnut .....	Tar concrete .....	1,200	.27
Lake avenue .....	Amherst to Concord .....	Block .....	2,153	.79
Vine .....	Elm to Vine.....	Tar concrete .....	1,733	1.65
Concord .....	Elm to Vine.....	Tar concrete .....	746	1.30
Amherst .....	Union to Beech.....	Tar concrete .....	746	.59
Amherst .....	Depot to West Cedar.....	Tar concrete .....	1,706	.57
Canal .....	Granite to Main .....	Tar concrete .....	1,54	1.54
South Main .....	Main to Mast.....	Block .....	4,666	2.33
Mast .....	Main to Mast road .....	Granite block and tar concrete.....	10,355	5.67
Main .....	Sullivan to Amory .....	Tar concrete, block and flassam.....	4,15	4.15
Marion .....	Main to McGregor.....	Hassam and macadam .....	8,089	3.96
Wayne .....	Main to McGregor.....	Tar concrete and macadam.....	5,311	3.92
		Tar concrete .....	1,133	.57
		Tar concrete .....	755	.40
			139,550	\$98.50

Average cost per square yard, \$0.0007.

## STREET SWEEPING WITH MACHINE. (892-896)

Date.	LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Total square yards per night.	Cost.
July 16	Manhattan lane	Central to Lake ave. south back	Block	606		
"	Nutfield lane	Monadnock lane to Lowell	Tar concrete and block	2,100		
"	Church	Lowell to Bridge	Block	622		
"	North Church	Bridge to Pearl	Block	466		
"	Derryfield lane	Nutfield lane to Chestnut	Block	669		
"	Londonderry lane	Nutfield lane to Chestnut	Block	669		
"	Monadnock lane	Nutfield lane to Pine	Block	1,244		
"	Bridge place	Bridge southerly	Block	233		
"	Pearl south back	North Church easterly	Block	116		
"	Central south back	Manhattan lane easterly	Block	233		
"	Lake ave. south back	Manhattan lane easterly	Block	155		
"	Elm	Orange to Harrison	Block	5,666		
"	Elm	Auburn to Valley	Block	10,200	22,979	\$14.35
July 17	Union	Lowell to Lake avenue	Tar concrete and macadam	7,500		
"	Hanover	Beech to Pine	Tar concrete and macadam	3,333		
"	Maple	Lake avenue to Merrimack	Tar concrete	2,737		
"	Merrimack	Maple to Beech	Tar concrete	2,000		
"	Pine	Central to Spruce	Tar concrete	1,800		
"	Lake avenue	Chestnut to Elm	Tar concrete	2,153		
"	Granite	Canal to Main	Tar concrete & granite blk.	10,355		
"	Canal	Granite to West Cedar	Block	1,400		
July 18	Union	Lowell to Lake avenue	Tar concrete and macadam	7,500	31,278	12.60
"	Merrimack	Maple to Beech	Tar concrete	2,000		
"	Maple	Lake avenue to Merrimack	Tar concrete	2,737		
"	Hanover	Beech to Union	Tar concrete	1,966		
"	Amherst	Union to Beech	Tar concrete	1,706		
"	Chestnut	Lowell to Merrimack	Tar concrete	5,116		
"	Merrimack	Chestnut to Elm	Tar concrete	2,153		
"	Vine	Concord to Amherst	Tar concrete	1,733		
"	Amherst	Vine to Elm	Tar concrete	746		
"	Concord	Vine to Elm	Tar concrete	746		
"	Elm	Auburn to Bridge	Granite block	26,444	52,847	12.60

July 27	Elm .....	Auburn to Orange .....	Granite block & tar concrete .....	31,692	38,047	\$18.85
	Granite .....	Canal to Turner .....	Granite block .....	6,355		
July 28	Merrimack .....	Beech to Maple .....	Tar concrete .....	2,000		
" "	Maple .....	Merrimack to Lake avenue .....	Tar concrete .....	2,737		
" "	Pine .....	Central to Spruce .....	Tar concrete .....	1,800		
" "	Lake avenue .....	Chestnut to Elm .....	Tar concrete .....	2,153	12,292	14.35
" "	Central .....	Elm to Manhattan lane .....	Tar concrete .....	377		
" "	Amherst .....	Elm to Vine .....	Tar concrete .....	746		
" "	Concord .....	Elm to Vine .....	Tar concrete .....	746		
" "	Vine .....	Amherst to Concord .....	Tar concrete .....	1,733		
July 29	Monadnock lane ..	Nutfield lane to Pine .....	Block .....	1,244	16,698	14.35
" "	Nutfield lane .....	Monadnock lane to Lowell .....	Tar concrete and block .....	2,100		
" "	Church .....	Lowell to Bridge .....	Block .....	622		
" "	North Church .....	Bridge to Pearl .....	Block .....	466		
" "	Washington .....	Elm to Church .....	Block .....	267		
" "	Pearl south back ..	North Church easterly .....	Block .....	116	33,855	14.35
" "	Bridge .....	Elm to Birch .....	Block .....	1,306		
" "	Elm, west side .....	Spring to Cedar .....	Granite block .....	10,577		
July 30	Franklin .....	Granite to Market .....	Macadam .....	4,833		
" "	Granite .....	Elm to Canal .....	Macadam .....	1,689	11,172	14.35
" "	Chestnut .....	Lowell to Harrison .....	Macadam .....	6,933		
" "	Granite .....	Turner to Main .....	Tar concrete .....	4,000		
" "	Main .....	Granite to Mast .....	Tar concrete, blk. & Hassam .....	8,089		
" "	Mast .....	Main to Mast road .....	Macadam and Hassam .....	8,311	31,692	14.35
Aug. 1	Union .....	Lake avenue to Lowell .....	Tar concrete and macadam .....	7,500		
" "	Amherst .....	Union to Beech .....	Tar concrete .....	1,706		
" "	Hanover .....	Union to Beech .....	Tar concrete .....	1,966		
Aug. 3	Elm .....	Auburn to Orange .....	Granite block & tar concrete .....	31,692	16,745	14.35
Aug. 4	Merrimack .....	Franklin to Chestnut .....	Tar concrete .....	3,072		
" "	Chestnut .....	Merrimack to Lowell .....	Tar concrete .....	5,116		
" "	Hanover .....	Elm to Pine .....	Tar concrete .....	3,306		
" "	Manchester .....	Elm to Chestnut .....	Tar concrete .....	2,026		
" "	Amherst .....	Elm to Vine .....	Tar concrete .....	746	17,066	14.35
" "	Concord .....	Elm to Vine .....	Tar concrete .....	746		
" "	Vine .....	Concord to Amherst .....	Tar concrete .....	733		
Aug. 13	Amherst .....	Union to Beech .....	Tar concrete .....	1,706		
" "	Hanover .....	Union to Beech .....	Tar concrete .....	1,966		
" "	Merrimack .....	Beech to Maple .....	Tar concrete .....	2,000		

## STREET SWEEPING WITH MACHINE. (892-896).—Continued.

Date.	LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Total square yards per night.	Cost.
Aug. 13	Maple Union .....	Merrimack to Lake avenue... Lowell to Lake avenue.....	Tar concrete..... Tar concrete and macadam	2,737 7,506	15,909	\$16.10
Aug. 14	Elm .....	Orange to Auburn.....	Tar concrete & granite blk..	31,692	32,368	16.10
Aug. 15	Bridge .....	Elm to Church.....	Block .....	676		
Aug. 15	Union .....	Lowell to Lake avenue.....	Tar concrete and macadam	7,500	12,616	16.10
Aug. 15	Chestnut .....	Lowell to Merrimack.....	Tar concrete.....	5,116		
Aug. 17	Manhattan lane .....	Central to Lake ave. south back	Block .....	606		
Aug. 17	Nutfield lane .....	Monadnock lane to Lowell.....	Tar concrete and block.....	2,100		
Aug. 17	Church .....	Lowell to Bridge .....	Block .....	622		
Aug. 17	North Church .....	Bridge to Pearl .....	Block .....	466		
Aug. 17	Derryfield lane .....	Nutfield lane to Chestnut.....	Block .....	649		
Aug. 17	Londonderry lane .....	Nutfield lane to Chestnut.....	Block .....	669		
Aug. 17	Monadnock lane .....	Nutfield lane to Pine.....	Block .....	1,344		
Aug. 17	Bridge place .....	Bridge southerly .....	Block .....	223		
Aug. 17	Pearl south back .....	North Church easterly.....	Block .....	116		
Aug. 17	Central south back .....	Manhattan lane easterly.....	Block .....	233		
Aug. 17	Lake ave. south back .....	Manhattan lane easterly.....	Block .....	155		
Aug. 17	Bridge .....	Elm to Church.....	Block .....	676		
Aug. 17	Chestnut .....	Lowell to Merrimack.....	Tar concrete.....	5,116	12,905	12.60
Aug. 18	Hanover .....	Pine to Elm.....	Tar concrete.....	3,506		
Aug. 18	Manchester .....	Elm to Chestnut.....	Tar concrete.....	2,026		
Aug. 18	Merrimack .....	Elm to Chestnut.....	Tar concrete.....	2,153		
Aug. 18	Lake avenue .....	Elm to Chestnut.....	Tar concrete.....	2,153		
Aug. 18	Concord .....	Elm to Vine.....	Tar concrete.....	746		
Aug. 18	Amherst .....	Elm to Vine.....	Tar concrete.....	746		
Aug. 18	Pine .....	Central to Spruce.....	Tar concrete.....	1,800		
Aug. 19	Elm .....	Auburn to Langdon.....	Granite block, tar concrete.	38,492	12,930	12.60
Aug. 20	Granite .....	Canal to Turner .....	Granite block.....	6,255	38,492	14.35
Aug. 20	Canal .....	West Cedar to Granite.....	Block .....	1,400		
Aug. 20	Granite .....	Turner to Main.....	Tar concrete.....	4,000		

Aug. 20	Main .....	Granite to Mast.....	Tar concrete, blk. & Hassam	8,089	
"	Mast .....	Main to Mast road.....	Hassam and macadam.....	8,311	
"	Main .....	Putnam to Amory.....	Tar concrete and macadam	4,166	
"	Marion .....	McGregor to Main.....	Tar concrete.....	1,133	\$14.35
Aug. 21	Merrimack .....	Beech to Maple.....	Tar concrete.....	2,000	
"	Maple .....	Merrimack to Lake avenue..	Tar concrete.....	2,737	
"	Depot .....	Elm to Franklin.....	Block .....	1,200	
"	Elm .....	Auburn to Valley.....	Block .....	10,200	14.35
Aug. 22	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500	
"	Hanover .....	Union to Beech.....	Tar concrete.....	1,966	
"	Amherst .....	Beech to Union.....	Tar concrete.....	1,706	14.35
Aug. 24	Elm .....	Amherst to Langdon.....	Granite blk. & tar concrete	19,644	14.35
Aug. 25	Chestnut .....	Lowell to Merrimack.....	Tar concrete.....	5,116	
"	Concord .....	Elm to Vine.....	Tar concrete.....	746	
"	Vine .....	Amherst to Concord.....	Tar concrete.....	1,723	
"	Hanover .....	Elm to Pine.....	Tar concrete.....	3,306	
"	Manchester .....	Elm to Chestnut.....	Tar concrete.....	2,026	
"	Central .....	Elm to Manhattan lane.....	Tar concrete.....	377	
"	Lake avenue .....	Elm to Chestnut.....	Tar concrete.....	2,153	
"	Pine .....	Central to Spruce.....	Tar concrete.....	1,800	14.35
Aug. 26	Manhattan lane .....	Central to Lake ave. south back	Block .....	606	
"	Nutfield lane .....	Monadnock lane to Lowell....	Tar concrete and block....	2,100	
"	Church .....	Lowell to Bridge .....	Block .....	622	
"	North Church .....	Bridge to Pearl .....	Block .....	466	
"	Derryfield lane .....	Nutfield lane to Chestnut.....	Block .....	639	
"	Londonberry lane .....	Nutfield lane to Chestnut.....	Block .....	639	
"	Monadnock lane .....	Nutfield lane to Pine.....	Block .....	1,244	
"	Bridge place .....	Bridge southerly .....	Block .....	233	
"	Pearl south back.....	North Church easterly.....	Block .....	16	
"	Central south back.....	Manhattan lane easterly.....	Block .....	223	
"	Lake ave. south back.....	Manhattan lane easterly.....	Block .....	155	
"	Hampshire lane.....	Spring to West Auburn.....	Tar concrete and block....	4,358	
"	Granite south back.....	Franklin to Canal.....	Block .....	622	
Aug. 27	Canal .....	Depot to Cedar.....	Block .....	2,800	
"	Granite .....	Canal to Turner.....	Granite block.....	6,355	
"	Granite .....	Turner to Main.....	Tar concrete.....	4,000	
"	Main .....	Granite to Mast.....	Tar concrete, blk. & Hassam	8,089	
"	Mast .....	Main to Mast road.....	Hassam and macadam.....	8,311	14.35



## STREET SWEEPING WITH MACHINE. (892-896).—Continued.

Date.	LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Total square yards per night.	Cost.
Aug. 27	Main .....	Putnam to Amory.....	Tar concrete and macadam	4,166		
" "	Marion .....	Main to McGregor.....	Tar concrete.....	1,133	34,854	\$14.35
Aug. 28	Elm .....	Valley to Langdon.....	Block, Granite block & tar	48,355	48,355	14.35
Aug. 29	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500		
" "	Hanover .....	Union to Beech.....	Tar concrete.....	1,966		
" "	Amherst .....	Union to Beech.....	Tar concrete.....	1,706		
" "	Merrimack .....	Beech to Maple.....	Tar concrete.....	2,000		
" "	Maple .....	Merrimack to Lake avenue...	Tar concrete.....	2,737		
Sept. 1	Elm .....	Auburn to Orange .....	Tar concrete & granite blk..	31,692	15,909	14.35
" "	Hanover .....	Elm to Pine.....	Tar concrete.....	3,306		
" "	Manchester .....	Elm to Chestnut.....	Tar concrete.....	2,026		
" "	Merrimack .....	Franklin to Chestnut.....	Tar concrete.....	3,972		
Sept. 2	Manhattan lane ...	Central to Lake ave. south back	Block .....	606		
" "	Nutfield lane .....	Monadnock lane to Lowell.....	Tar concrete and block.....	2,100		
" "	Church .....	Lowell to Bridge .....	Block .....	622		
" "	North Church .....	Bridge to Pearl.....	Block .....	466		
" "	Derryfield lane .....	Nutfield lane to Chestnut.....	Block .....	669		
" "	Londonderry lane ..	Nutfield lane to Chestnut.....	Block .....	669		
" "	Monadnock lane ..	Nutfield lane to Pine.....	Block .....	1,244		
" "	Bridge place .....	Bridge southerly .....	Block .....	233		
" "	Pearl south back....	North Church easterly.....	Block .....	116		
" "	Central south back ..	Manhattan lane easterly.....	Block .....	232		
" "	Lake ave. south back	Manhattan lane easterly.....	Block .....	155		
" "	Hampshire lane.....	Spring to West Auburn.....	Block .....	4,558		
" "	Granite south back ..	Franklin to Canal.....	Tar concrete and block.....	622		
Sept. 3	Pine .....	Central to Spruce.....	Tar concrete.....	1,800	12,293	16.10
" "	Granite .....	Canal to Turner.....	Granite block.....	6,355		
" "	Canal .....	Granite to West Cedar.....	Block .....	1,400		
" "	Granite .....	Turner to Main.....	Tar concrete.....	4,000		
" "	Main .....	Granite to Mast.....	Tar concrete, blk. & Hassam	8,089		
" "	Mast .....	Main to Mast road.....	Hassam and macadam.....	8,311		



Sept. 3	Main .....	Wayne to Amory.....	Tar concrete and macadam	1,888	
	Marion .....	Main to McGregor.....	Tar concrete .....	1,133	\$16.10
Sept. 4	Elm .....	Auburn to Orange .....	Tar concrete .....	31,692	
	Chestnut .....	Merrimack to Lowell.....	Tar concrete .....	5,116	16.10
Sept. 5	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500	
	Merrimack .....	Beech to Maple.....	Tar concrete .....	2,000	
	Maple .....	Merrimack to Lake avenue...	Tar concrete .....	2,737	
Sept. 8	Elm .....	Auburn to Orange.....	Tar concrete & granite blk..	31,692	16.10
	Bridge .....	Elm to Birch.....	Block .....	1,30t	
	Central .....	Elm to Manhattan lane.....	Tar concrete .....	377	
	Depot .....	Elm to Franklin.....	Block .....	1,203	16.10
Sept. 9	Lake avenue .....	Elm to Chestnut.....	Tar concrete .....	2,153	
	Merrimack .....	Franklin to Chestnut.....	Tar concrete .....	3,072	
	Manchester .....	Elm to Chestnut.....	Tar concrete .....	2,026	
	Hanover .....	Elm to Pine.....	Tar concrete .....	3,366	
	Vine .....	Amherst to Concord.....	Tar concrete .....	1,733	
	Concord .....	Elm to Vine.....	Tar concrete .....	746	
	Amherst .....	Elm to Vine.....	Tar concrete .....	746	
	Elm .....	Orange to Langdon.....	Block .....	6,800	16.10
Sept. 10	Pine .....	Central to Spruce.....	Tar concrete .....	1,800	
	Elm .....	Auburn to Valley.....	Block .....	10,200	
	Canal .....	Granite to West Cedar.....	Block .....	1,400	
	Granite .....	Canal to Turner.....	Granite block.....	6,355	16.10
Sept. 11	Elm .....	Auburn to Orange.....	Granite block, tar concrete.	31,692	
	Chestnut .....	Lowell to Merrimack.....	Tar concrete .....	5,116	16.10
Sept. 12	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500	
	Hanover .....	Union to Beech.....	Tar concrete .....	1,966	
	Amherst .....	Union to Walnut.....	Tar concrete .....	782	
	Merrimack .....	Beech to Maple.....	Tar concrete .....	2,000	
Sept. 14	Manhattan lane .....	Central to Lake ave. south back	Block .....	606	
	Nutfield lane .....	Monadnock lane to Lowell.....	Tar concrete and block...	2,100	
	Church .....	Lowell to Bridge .....	Block .....	622	
	North Church .....	Bridge to Pearl .....	Block .....	465	
	Derryfield lane .....	Nutfield lane to Chestnut.....	Block .....	669	
	Londonderry lane .....	Nutfield lane to Chestnut.....	Block .....	669	
	Monadnock lane .....	Nutfield lane to Pine.....	Block .....	1,244	
	Bridge place .....	Bridge southerly .....	Block .....	233	

## STREET SWEEPING WITH MACHINE. (892-896).—Continued.

Date.	LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Total square yards per night.	Cost.
Sept. 14	Pearl south back....	North Church easterly.....	Block .....	116	17,959	\$16.10
"	Central south back....	Manhattan lane easterly.....	Block .....	233		
"	Lake ave. south back....	Manhattan lane easterly.....	Block .....	155		
"	Hampshire lane.....	Spring to West Auburn.....	Tar concrete and block.....	4,558		
"	Granite south back....	Franklin to Canal.....	Block .....	622		
"	Elm .....	Orange to Harrison.....	Block .....	5,066	36,868	16.10
Sept. 15	Elm .....	Orange to Auburn.....	Tar concrete & granite blk. .	31,692		
"	Chestnut .....	Merrimack to Lowell.....	Tar concrete .....	5,116	26,982	16.10
Sept. 16	Depot .....	Elm to Franklin.....	Block .....	1,200		
"	Lake avenue .....	Canal to Chestnut.....	Tar concrete.....	2,153		
"	Pine .....	Central to Spruce.....	Tar concrete.....	1,800		
"	Merrimack .....	Franklin to Chestnut.....	Tar concrete.....	3,072		
"	Manchester .....	Elm to Chestnut.....	Tar concrete.....	2,026		
"	Hanover .....	Elm to Pine.....	Tar concrete.....	3,306		
"	Amherst .....	Elm to Vine.....	Tar concrete.....	746		
"	Vine .....	Amherst to Concord.....	Tar concrete.....	1,733		
"	Concord .....	Vine to Elm.....	Tar concrete.....	746		
"	Elm .....	Auburn to Valley.....	Block .....	10,200	30,397	16.10
Sept. 17	Canal .....	Granite to Auburn.....	Block .....	3,266		
"	Granite .....	Canal to Main.....	Granite blk. & tar concrete	10,355		
"	Main .....	Granite to Mast.....	Tar concrete, blk. & Hassam	8,089		
"	Mast .....	Main to Bowman.....	Hassam and macadam.....	2,296		
"	Main .....	Sullivan to Amory.....	Tar concrete and macadam	5,646	31,692	16.10
"	Wayne .....	Main to McGregor.....	Tar concrete.....	755		
Sept. 18	Elm .....	Auburn to Orange.....	Granite blk. & tar concrete	31,692	15,127	16.10
Sept. 19	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500		
"	Hanover .....	Union to Beech.....	Tar concrete.....	1,966		
"	Amherst .....	Beech to Walnut.....	Tar concrete.....	924		
"	Merrimack .....	Beech to Maple.....	Tar concrete.....	2,000		
"	Maple .....	Merrimack to Lake avenue....	Tar concrete.....	2,537		

Sept. 21	Manhattan lane ....	Central to Lake ave. south back.	Block	606	
"	Nutfield lane .....	Monadnock lane to Lowell.....	Tar concrete and block....	2,100	
"	Church .....	Lowell to Bridge.....	Block	622	
"	North Church .....	Bridge to Pearl.....	Block	466	
"	Derryfield lane ....	Nutfield lane to Chestnut.....	Block	609	
"	Londonderry lane ..	Nutfield lane to Chestnut.....	Block	679	
"	Monadnock lane ....	Nutfield lane to Pine.....	Block	1,244	
"	Bridge place .....	Bridge southerly .....	Block	233	
"	Pearl south back....	North Church easterly.....	Block	116	
"	Central south back.	Manhattan lane easterly.....	Block	233	
"	Lake ave. south back.	Manhattan lane easterly.....	Block	155	
"	Hampshire lane....	Spring to West Auburn.....	Tar concrete and block....	4,558	
"	Granite south back.	Franklin to Canal.....	Block	622	
Sept. 22	Elm .....	Auburn to Langdon.....	Granite block, tar concrete.	38,492	\$16.19
Sept. 23	Depot .....	Elm to Franklin.....	Block	1,200	
"	Lake avenue .....	Elm to Chestnut.....	Tar concrete	2,153	
"	Pine .....	Central to Spruce.....	Tar concrete	1,800	
"	Merrimack .....	Franklin to Chestnut.....	Tar concrete	3,072	
"	Manchester .....	Elm to Chestnut.....	Tar concrete	2,026	
"	Hanover .....	Elm to Pine.....	Tar concrete	3,306	
"	Amherst .....	Elm to Vine.....	Tar concrete	746	
"	Vine .....	Amherst to Concord.....	Tar concrete	1,733	
"	Concord .....	Vine to Elm.....	Tar concrete	746	
"	Elm .....	Auburn to Valley.....	Block	10,200	
Sept. 24	Canal .....	Granite to West Cedar.....	Block	1,400	
"	Granite .....	Canal to Main.....	Granite blk. & tar concrete	10,355	16.10
"	Main .....	Granite to Mast.....	Tar concrete, blk. & Hassan	8,089	
"	Main .....	Sullivan to Amory.....	Tar concrete and macadam	3,663	
"	Marion .....	Main to McGregor.....	Tar concrete	1,133	
Sept. 25	Elm .....	Valley to Orange.....	Tar concrete, granite block [& block	41,592	16.10
Sept. 26	Union .....	Lake avenue to Lowell.....	Tar concrete and macadam	7,500	
"	Hanover .....	Union to Beech.....	Tar concrete	1,966	
"	Amherst .....	Union to Walnut.....	Tar concrete	782	
"	Merrimack .....	Beech to Maple.....	Tar concrete	2,000	
"	Maple .....	Merrimack to Lake avenue...	Tar concrete	2,737	
Sept. 28	Manhattan lane ....	Central to Lake ave. south back	Block	606	
"	Nutfield lane .....	Monadnock lane to Lowell.....	Tar concrete and block....	2,100	
"	Church .....	Lowell to Birch.....	Block	622	
"	North Church .....	Bridge to Pearl.....	Block	466	
				14,985	16.10
				26,982	
				26,643	
				41,892	

STREET SWEEPING WITH MACHINE. (892-896).—*Concluded.*

Date.	LOCATION.	LIMITS.	PAVEMENT.	Square yards.	Total square yards per night.	Cost.
Sept. 23	Derryfield lane ....	Nutfield lane to Chestnut.....	Block .....	669		
"	Londonderry lane ..	Nutfield lane to Chestnut.....	Block .....	669		
"	Monadnock lane.....	Nutfield lane to Pine.....	Block .....	1,244		
"	Bridge place .....	Bridge southerly .....	Block .....	233		
"	Pearl south back....	North Church easterly.....	Block .....	116		
"	Central south back..	Manhattan lane easterly.....	Block .....	233		
"	Lake ave. south back	Manhattan lane easterly.....	Block .....	155		
"	Hampshire lane.....	West Auburn to Spring.....	Tar concrete and block.....	4,558		
"	Granite south back.	Franklin to Canal.....	Block .....	622	12,293	\$16.10
Sept. 29	Elm .....	Valley to Central.....	Granite block and block...	18,133		
"	Central .....	Elm to Manhattan lane.....	Tar concrete.....	377		
"	Lake avenue .....	Elm to Chestnut.....	Tar concrete.....	2,153		
"	Pine .....	Central to Spruce.....	Tar concrete.....	1,800	22,463	16.10
				1,215,286	1,215,286	\$747.90

Average cost per square yard, \$0.000615.

Sweeping various streets with machine sweeper and picking up sweepings (905-929) .....	\$795.77
Sweeping gutters with machine sweeper and picking up sweepings (901-904) .....	175.34
Sweeping various streets (Division 10) by hand and picking up sweepings (899-900) .....	814.87
Sweeping and scraping from west end of McGregor bridge to B. & M. R. R. tracks and Amoskeag bridge (898)..	12.12
Cleaning streets after Fourth of July (897).....	43.92
Miscellaneous sweeping (unclassified).....	712.16
	<hr/>
	\$2,554.18

The paved streets were flushed during the night-time from May 25 to July 15, when this work was stopped on account of low water in the Massabesic lake and on request of the board of water commissioners.

This work was charged to the appropriation for watering streets.

All paved streets were swept with machine on an average of once each week during the season.

The following streets were sprinkled once with terracolio: Franklin, Market to Depot; West Central, Elm to Canal; Granite, Canal to Elm; Chestnut, Lowell to Harrison, at a cost of \$14.25 for labor and \$90.75 (charged to watering streets) for terracolio.

### Board of Street and Park Commissioners in account with the Appropriation for Bridges.

By repairs of bridges:

McGregor bridge, steel beams and fittings for river spans, United Construction Co.	\$2,919.48	
Sessions Foundry Co. (castings).....	228.92	
	<hr/>	\$3,148.40
Granite street bridge, over river and canal, United Construction Co., contract for cleaning and painting.....	\$2,493.01	
Amoskeag Mfg. Co., compressed air for sand blast .....	27.39	
	<hr/>	2,520.40
Elm street bridge over B. & M. R. R., W. Frank Kennedy, painting .....	30.08	
Elm street culvert over Baker brook, United Construction Co., 27 8"-beams, 18 lbs. per foot, 9 ft. long		120.00
Putnam street culvert, Gedeon Lariviere, carpenter work .....		46.25

## By lumber:

## Head &amp; Dowst Company:

75 ft. maple .....	\$2.25
labor on same.....	2.00
65 8-ft. chestnut posts @ 20c.....	13.00
271 ft. sapling @ \$35.00.....	9.49
machine work .....	.20
sawing blocks .....	12.80

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 \$39.74

## The J. H. Mendell Company:

341 ft. 2 x 4 spruce @ \$23.50.....	\$8.00
750 ft. spruce boards @ \$23.50.....	17.62
639 ft. spruce boards.....	14.70
261 ft. hemlock .....	5.61
350 ft. hemlock boards.....	7.53
80 ft. furring .....	1.92
866 ft. 2 x 6 spruce @ \$23.50.....	20.35
12 ft. 2" spruce @ \$23.50.....	.28
2¼ hrs. labor, man and machine, @ 60c.	1.35
1½ hrs. labor @ 40c.....	.60
85 ft. pine lumber @ \$30.00.....	2.55
488 ft. 2 x 4 spruce @ \$23.50.....	11.47

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 91.98

## B. F. Greer:

35,243 ft. 3" hemlock bridge plank @	
\$19.90 .....	\$701.34
To discount for cash.....	14.03
	<hr/>
	\$687.31
38,200 ft. 4" hemlock bridge plank @	
\$21.50 .....	831.29
12,736 ft. 4" hemlock bridge plank @	
\$22.00 .....	280.19

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 1,788.79

## West Side Lumber Company:

354 ft. 2 x 3 spruce @ \$23.00.....	\$8.14
330 ft. 2 x 3 spruce and furring @ \$23.00	7.59
450 ft. spruce, 3 x 4, planed two sides,	
@ \$25.00 .....	11.25
planing same .....	1.00
615 ft. spruce, 2 x 6, planed two sides,	
@ \$25.00 .....	15.38
1,090 ft. spruce, 2 x 6 and 3 x 4, @ \$23.00	27.25
planing same .....	1.00
150 ft. spruce, 2 x 6 and 3 x 4, @ \$25.00..	3.75

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 75.36



Cavanaugh Bros.:		
8,628 ft. 3" hemlock plank		
2,766 ft. 2" hemlock plank		
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11,394 ft. @ \$20.50.....		\$233.58
Fellows, Clark & Co.:		
13,000 ft. 3" hemlock plank @ \$19.90....	\$258.70	
To freight on above car....	\$43.70	
To car service on above car..	7.00	
	<hr/>	50.70
		208.00
Bachelder & Floyd:		
2,200 ft. 3" pine plank, 20 ft. long, @ \$22.00.....		48.40
By cement, Henry W. Parker:		
2,400 (cotton) bags, Atlas, @ 47¼c.....	\$1,134.00	
150 bbls. Atlas @ \$1.64.....	246.00	
	<hr/>	\$1,380.00
To 1 per cent discount for cash.....	13.82	
	<hr/>	1,366.18
By paint, Detroit Graphite Company:		
3 bbls. No. 30 superior graphite paint,		
173 gals., @ \$1.15 per gal.....	\$198.95	
5 bbls. No. 57 paint, 270 gals. @ \$1.15...	310.50	
	<hr/>	509.45
Waterproof Paint Company:		
52 gals. No. 53 graphite @ \$0.95.....		49.40
By supplies:		
John B. Varick Company:		
Nails, tools, etc. ....		277.88
Pike & Heald Company:		
7 1" couplings .....	\$0.35	
1¾ lbs. galv. iron @ 5c.....	.09	
1¼ hrs. labor on same @ 50c.....	.63	
	<hr/>	1.07
Arthur A. Warren:		
150 gals. kerosene oil .....		15.00
People's Gas-Light Co.:		
20 bbls. coal tar @ \$2.75.....		55.00
A. T. Beaumier:		
2 pairs rubber boots @ \$3.50.....		7.00
Henry W. Parker:		
1 bag A oatmeal .....		3.75
By freight and car service:		
Boston & Maine Railroad .....		56.28

## By miscellaneous charges:

Gilbert Lyons, surveying lumber .....	\$1.75	
E. P. Kittredge, railroad fare .....	1.07	
E. J. Quinn, railroad fare .....	3.92	
W. J. Quinn, railroad fare .....	3.92	
		\$10.66

## By contracts and bills incurred previous to 1908:

United Construction Company, labor, lumber, etc., on Cohas brook bridge .....		132.96
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## By labor:

Payroll Division No. 2 .....	\$2,826.88	
Payroll Division No. 10 .....	92.24	
Payroll Division No. 7 .....	60.50	
Payroll Division No. 4 .....	28.00	
Payroll Division No. 5 .....	29.00	
Payroll Division No. 9 .....	40.50	
		3,077.12

To appropriation for bridges .....	\$8,000.00	\$13,912.73
Samuel R. Colwell, 2½ bags Atlas Portland cement @ 50c. ....	1.25	
Water commissioners, labor and material painting water pipes under Granite street bridges (over river and canal)..	146.61	
United Construction Company, 300 empty cement bags @ 7½c. ....	22.50	
Henry W. Parker, 4,000 empty cement bags @ 7½c. ....	300.00	
overdraft .....	5,442.37	
	\$13,912.73	\$13,912.73

## ITEMIZED OPERATIONS.

## (449) MCGREGOR BRIDGE.

Patching roadway, labor .....	\$30.00
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## (450-457) WOODEN BLOCK PAVING.

## Floor system:

Steel beams and fittings .....	\$2,919.48
Iron castings .....	228.92
Labor on steel work and planking:	
Labor of men .....	828.08
Labor of teams .....	171.85
2,064 ft. spruce 4x6 @ \$21.07.....	43.49
400 ft. hemlock 4x6 @ \$21.07.....	8.43
1,440 ft. hemlock 3x6 @ \$19.50.....	28.08

7 kegs 10" spikes @ \$2.60.....	\$18.20
1 keg 8" spikes @ \$2.60.....	2.60
2 kegs 6" spikes @ \$2.50.....	5.00
2 kegs 4½" spikes @ \$2.50.....	5.00
28 gals. paint @ \$1.15.....	32.20
8 bbls. tar @ \$2.75 .....	22.00
2 bbls. pitch @ \$6.00 .....	12.00

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 \$4,325.33

## (458-461) Floor:

1,070.01 sq. yds. wood blocks @ \$2.10.....	\$2,247.02
22 loads sands @ 10c. ....	2.20
27 bbls. sand @ \$2.75 .....	74.25
1 bbl. pitch @ \$6.00 .....	6.00
600 ft. spruce 2x6 @ \$25.00.....	15.00
418 ft. spruce 2x6 @ \$23.50.....	9.82
408 ft. spruce 2x4 @ \$23.50.....	9.59
448 ft. spruce 3x4 @ \$25.00.....	11.20
Labor of men .....	239.56
Labor of teams .....	69.50

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 2,684.14

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 \$7,039.47

## (462-463) GRANITE BRIDGE.

The wind-break was taken down in the early part of May and put up again in December at a cost of....

\$29.05

The following work was done on the Granite street bridge by the United Construction Company (under contract):

Sand blasting and painting bridge as per contract....	2,075.00
Sand blasting and painting water pipes as per contract, underneath bridge, 489 feet @ 25c. per foot..	122.25
Sand blasting and painting gas pipes as per contract, underneath bridge, 534 feet @ 18c. per foot.....	96.12
Sand blasting and painting two telephone conduits as per contract, underneath bridge, 900 feet @ 10c. per foot .....	90.00

Sand blasting and painting Granite street bridge (over the lower canal), sand work being covered by an order signed and accepted by United Construction Company and done under the clause entitled "Extra Work," in the contract for cleaning and painting Granite street bridge (over Merrimack river):

33 hrs. foreman labor @ 50c. ....	\$16.50
35 hrs. labor @ 28c. ....	9.80
75 hrs. labor @ 25c. ....	18.75
137 hrs. labor @ 20c. ....	27.40
Insurance on labor .....	2.89

2 loads sand @ \$2.50 .....	\$5.00	
3 days' use of plant @ \$5.00.....	15.00	
		\$95.34
15% on above .....	14.30	
		<u>\$109.64</u>

\$2,522.06

Compressed air for the sand blast was furnished by the Amoskeag Manufacturing Company at a cost for piping and use of air of.....	27.39
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Paint was used as follows:

10 gals. oil @ 45c. per gal. ....	\$4.50	
3 bbls. No. 30 black superior graphite paint, 173 gals. @ \$1.15 per gal.....	198.95	
3¼ bbls. No. 57 gray paint, 175½ gals. @ \$1.15 per gal. ....	201.83	
		<u>405.28</u>
		<u>\$2,925.65</u>

Sand blasting and painting water pipes underneath Granite bridge (over river and canal), 489 feet @ 25c. per foot....	\$122.25	
Paint .....	24.36	
		<u>\$146.61</u>

This is charged to water commissioners and credit appears under the appropriation for bridges, financial.

Sand blasting and painting gas pipes underneath Granite bridge, 534 feet @ 18c. per foot .....	\$96.12	
Paint .....	6.90	
		<u>\$103.02</u>

This is charged to People's Gas-Light Company and credit will appear in the 1909 report.

Sand blasting and painting two telephone conduits underneath Granite bridge, 900 feet @ 10c. per foot .....	\$90.00	
Paint .....	4.74	
		<u>\$94.74</u>

This is charged to the New England Telephone & Telegraph Company and credit will appear in the 1909 report.

## (480) WILSON'S CROSSING BRIDGE.

Painting, labor .....	\$21.00	
7 gals. graphite paint @ 95c. ....	6.65	
		<u>\$27.65</u>

## (481) MOSQUITO POND BRIDGE.

Painting, labor .....	\$14.00	
7 gals. graphite paint @ 95c. ....	6.65	
	<hr/>	\$20.65

## (482) MILL ROAD BRIDGE.

Painting, labor .....	\$19.00	
7 gals. graphite @ 95c. ....	6.65	
	<hr/>	\$25.65

## (483) GOFFE'S FALLS BRIDGE.

Painting, labor .....	\$28.00	
10½ gals. graphite paint @ 95c. ....	9.97	
	<hr/>	\$37.97

## (484) WILLOW STREET BRIDGE.

Painting, labor .....	\$10.00	
13½ gals. graphite paint @ 95c. ....	12.82	
	<hr/>	\$22.82

## (485) MILL DAM BRIDGE—Over Dam.

## Replanking:

Labor .....	\$24.25	
5,400 ft. 3" plank @ \$19.90 per M. ....	107.46	
1 keg spikes .....	2.60	
	<hr/>	\$134.31

## (486-487) MILL DAM BRIDGE.

Repairs .....	\$11.50	
Painting, labor .....	27.00	
7 gals. graphite paint @ 95c. ....	6.65	
	<hr/>	\$45.15

## (488) ELM STREET BRIDGE—Over B. &amp; M. R. R.

Painting, labor .....	\$30.08	
Paint .....	20.00	
	<hr/>	\$50.08

## (464-467) BROWN AVENUE—Near Junction of Beech Street.

## 24-inch pipe culvert:

68 feet 24-inch pipe @ \$1.07⅓.....	\$72.99
3,000 brick @ \$9.00 per M. ....	27.00
30 bags Portland cement @ 47¼c.....	14.18
1 manhole casting .....	9.08

8 manhole steps @ 20c.....	\$1.60	
2 tons crushed stone .....	2.00	
Labor of men .....	340.57	
Labor of teams .....	55.74	
		<hr/>
		\$523.16

## (468-474) ELM STREET—Culvert at Baker Brook.

Concrete culvert, 7 feet wide by 4 feet deep, inside measure, 50 feet long:

27 8" beams, 18 lbs. per ft., 9 feet long....	\$120.00	
88 tons granite .....	88.00	
21 loads sand .....	2.10	
434½ bags Portland cement .....	205.30	
Coal .....	15.00	
Labor of men .....	312.26	
Labor of teams .....	78.23	
		<hr/>
		\$820.89

Cost per lineal foot, \$16.419.

## (475-476) Stone culverts on River road north of Stark park; repairs:

Labor of men .....	\$46.00	
Labor of teams .....	5.62	
		<hr/>
		\$51.62

## (477) Wood box culverts, Front street, Amoskeag:

Labor .....	\$5.93	
900 ft. 3" plank .....	17.55	
50 lbs. 6" spikes .....	1.25	
		<hr/>
		\$24.73

Made at city yard and carried to Amoskeag.

## (478) Unloading cars:

2 cars sewer plank at new city yard, labor.....	\$4.22
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## (479) Hauling plank:

Hauling 4" hemlock bridge plank from Canal street to new city yard, labor of men .....	\$12.15	
labor of teams .....	6.75	
		<hr/>
		\$18.90

### Board of Street and Park Commissioners in account with the Appropriation for City Teams.

By feed:

Arthur S. Brown:

5 bags corn @ \$1.25.....	\$6.75
10 bags corn @ \$1.40.....	14.00
5 bags corn @ \$1.45.....	7.25
25 bags corn @ \$1.50.....	37.50
19 bags corn @ \$1.55.....	29.45
5 bags corn @ \$1.60.....	8.00



10 bags corn @ \$1.65.....	\$16.50
39 bags corn @ \$1.70.....	66.30
19 bags corn @ \$1.75.....	33.25
33 bags corn @ \$1.80.....	59.40
19 bags shorts @ \$1.60.....	30.40
2 bags shorts @ \$1.65.....	3.30
40 bags mixed feed @ \$1.70.....	68.00
6 bags cornmeal @ \$1.55.....	9.30
3 bags cornmeal @ \$1.60.....	4.80
11 bags cornmeal @ \$1.70.....	18.70
2 bags cornmeal @ \$1.75.....	3.50
15 bushels of seed oats @ \$0.75.....	11.25
75 bags oats @ \$1.26.....	94.50
48,045 lbs. oats (32 lbs. per bu.)	
1,501.4 bu. @ \$0.63.....	945.85
weighing above carload.....	2.80
1 bag coarse fine salt.....	.75

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 \$1,471.59

## McQuesten &amp; Lewis:

One carload of oats (48,835 lbs.), 1,526.1 bu. @ 62½c. 953.81

## F. H. Masse &amp; Co.:

 1,613.9 bu. oats @ 59c..... \$952.20  
 weighing same on city scales..... 2.60

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 954.80

## Henry W. Parker:

 1 bag coarse fine salt..... \$0.70  
 3 bags coarse fine salt @ 65c..... 1.95  
 1 bag coarse fine salt..... 1.65

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 4.30

## Ame &amp; Company:

 3 bbls. (250 lbs. to a bbl.) Standard Horse Food @  
 \$15.00 ..... 45.00

## By supplies:

John B. Varick Co., paint, irons, etc.....	\$681.37
Kimball Carriage Co., collars.....	9.00
Ranno Saddlery Co., collars, etc.....	22.17
Arthur A. Warren, oil.....	5.00
C. D. Steele & Co., ginger, soap, etc.....	2.46
Henry W. Parker, Gold Dust Powder, etc..	4.06
Fred F. Osgood, old belting.....	8.10
Pike & Heald Co., heaters, etc.....	294.98
Knox and Morse Co., disinfectant.....	22.26
Stark mills, duck to cover scavenger teams	39.83
Manchester Hardware Co., wire, etc.....	2.83
A. J. Precourt, salt, etc.....	3.50
Luther Bros. Co., grinder.....	11.87
J. J. Abbott, paper, etc.....	20.11

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 1,127.54

## By repairs:

Oliver Comire, harness, etc.....	\$247.15
Joseph Vogel & Co., harness, etc.....	98.45
S. P. Dodge Co., wagons, etc.....	62.05
Elmer E. Reed, plaster, etc.....	10.12

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 \$417.77

## By lumber and labor:

The J. H. Mendell Co.....	\$75.47
Head & Dowst Co.....	86.91
West Side Lumber Co.....	18.55

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 180.93

## By veterinary service and medicine:

John L. Golden .....	\$86.15
Charles A. Bailey .....	6.00
Frank J. Clark .....	5.00
H. B. Dunton .....	30.00

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 127.15

## By lights, fuel and water:

People's Gas-Light Co., gas.....	\$143.00
Manchester Traction, Light & Power Co., electricity .....	50.90
L. B. Bodwell & Co.:	
½ ton Cumberland coal @ \$6.00.....	3.00
½ ton blacksmith coal @ \$6.00.....	3.00
½ ton blacksmith coal @ \$5.50.....	2.75
22.7 tons egg coal @ \$6.55.....	148.69
29.75 tons egg coal @ \$7.00.....	208.25
board of water commissioners, water....	80.00

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 639.59

## By new wagons, etc.:

J. L. & H. K. Potter, 2 dumpcarts.....	\$286.00
Watson Wagon Co., 1 dump wagon.....	214.87
George P. Ames, 1 pair wagon wheels....	20.00
Charles Francis, 1 pair horses, 1 dump- cart, 1 sled, 1 pair of double harnesses, blankets, halters, etc.....	500.00

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 1,020.87

## By purchase, board and use of horses:

## Cavanaugh Bros.:

1 pair brown horses.....	\$550.00
1 pair brown mules.....	600.00
1 pair bay horses.....	550.00
boarding, killing and burying one gray horse .....	38.40
cash paid for care of same.....	12.00
cash due on one gray horse.....	50.00
four days' use of one horse.....	6.00

boarding 1 pair horses 36 days.....	\$61.20
boarding 1 pair horses 9 days.....	15.30
1 day's use 1 pair horses.....	3.00
1 pair black mules.....	600.00

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\$2,485.90

To credit 4 horses.....	\$300.00
To credit 1 gray mare.....	25.00

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325.00

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\$2,160.90

## Tom Welch:

use of 1 pair of horses 12 days @ \$1.50..	\$18.00
use of 1 pair of horses 30 days @ \$1.50..	45.00
use of 1 pair of horses 24 days @ \$1.50..	36.00
use of 1 pair of horses 24 days @ \$1.50..	36.00
use of 1 pair of horses 30 days @ \$1.50..	45.00
use of 1 pair of horses 24 days @ \$1.50..	36.00
use of 1 pair of horses 24 days @ \$1.50..	36.00
use of 1 pair of horses 30 days @ \$1.50..	45.00
1 pair of horses and 1 pair harnesses..	625.00

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\$922.00

To credit above, paid in May and Decem- ber drafts .....	297.00
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625.00

## By miscellaneous:

Committee on city farm, renting portion of city farm .....	\$855.00
Gilbert Lyons, weighing oats.....	1.40
New Hampshire Chimney Sweep Co.....	24.50
Union Publishing Co., advertising.....	1.80
Everett & Bunton, insurance.....	10.00
Gedeon Lariviere, labor.....	77.00
Robert Stevens, labor.....	1.50
John Lawrence, labor.....	93.00

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1,064.20

## By labor:

Payroll Division No. 2.....	\$6,602.64
Payroll Division No. 10.....	413.24
Payroll Division No. 7.....	1.75
Payroll Division No. 8.....	8.75

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7,026.38

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\$17,819.83

To appropriation for city teams.....	\$10,000.00
Katz and Gordon, sale of apples at city farm .....	161.09

H. M. Porea, rent.....	\$10.00	
Henry W. Parker, rebate on account of overcharge on 1 bag of salt.....	1.00	
Overdraft .....	7,647.74	
	<hr/>	<hr/>
	\$17,819.83	\$17,819.83

The operations under this appropriation are not itemized.

The varying prices paid for oats and corn are due to the prevailing prices at different times throughout the year. Oats are purchased by contract in carload lots; corn is purchased in small lots (it being the reported experience of the barn men that when corn is stored in the barn in any quantity a considerable amount spoils). The board has in consequence bought corn in small quantities and paid the prevailing market prices. All repairs and maintenance of wagons and harnesses, etc., horses, mules, shoes and shoeing, cutting and getting in and distributing hay, straw, etc., hauling manure from engine houses and city stables, rent of city farm, coal for stables, workshop and new boiler at city farm are all charged to the appropriation for city teams, also the blacksmith, helpers, carpenter, barn men and city farm men. Manure was hauled to the city farm from the city stables and engine-houses as follows:

Location.	Two-horse loads.	One-horse loads.
City stables, East and West Sides.....	56	9
Vine-street station .....	43	9
Lake avenue .....	13	7
Webster street .....	13	8
Fire King and Fulton.....	31	2
Massabesic .....		10
Somerville street .....	7	7
	<hr/>	<hr/>
	163	53

One hundred and one tons of first quality hay were harvested at the city farm.

10 tons of second crop.

8 tons of meadow hay.

6 tons of oat fodder.

### Board of Street and Park Commissioners in account with the Appropriation for Repairs of Sewers.

By brick:

W. F. Head & Sons:

92,242 brick @ \$8.50 per M.....	\$784.06
To discount for cash.....	\$7.32
To freight .....	85.20
To car service .....	1.00
	<hr/>
	93.52
	<hr/>
	\$690.54

## STREET AND PARK COMMISSIONERS.

637

Head & Dowst Company:		
1,770 brick, U. & D., @ \$10.50 per M.....	\$18.59	
		\$709.13
By catch-basin curbs, Paradise & Dionne:		
24 No. 6 catch-basin curbs @ \$3.32.....	\$79.68	
2 No. 6 catch-basin curbs @ \$3.45.....	6.90	
4 pieces catch-basin curbing @ \$3.45.....	13.80	
	\$100.38	
To discount for cash .....	1.01	
		99.37
By castings, Sessions Foundry Co.:		
cesspool grates, manhole frames, etc.....	\$781.26	
To discount for cash .....	\$1.85	
To freight .....	12.78	
	14.63	
		766.63
By coal, L. B. Bodwell & Co.:		
2 tons steam coal @ \$5.50.....		11.00
By supplies:		
John B. Varick Co., cesspool scoops, hoes, etc. ....	\$33.90	
George W. Dodge Shoe Co., rubber boots..	4.00	
Barbour-Stockwell Co., track drains.....	23.50	
Pike & Heald Co., cesspool dippers, pipe, etc. ....	18.25	
Augustus L. Dyer, scrap leather.....	1.14	
		110.79
By repairs, American Locomotive Company.....		5.00
By labor and supplies:		
R. E. McKean .....	\$14.53	
Concord Foundry & Machine Co.....	6.25	
		20.80
By freight and car service, Boston & Maine Railroad....		104.04
By labor:		
Payroll Division No. 2.....	\$3,387.86	
Payroll Division No. 10.....	790.82	
Payroll Division No. 7.....	169.88	
		4,348.56
		\$6,175.32
To appropriation for repairs of sewers....		\$8,000.00
Boston & Maine R. R., refund on account overcharge of freight .....	5.14	
town of Londonderry, cesspool cover and frame .....	7.09	
E. B. Hull, 1 casting.....	2.91	
town of Weare, N. H., 6 cesspool grates	13.80	
Pike & Heald Co., 2 cesspool covers and traps .....	8.84	

To town of Raymond, N. H., 1 manhole frame and cover .....	\$15.13	
J. W. Mudgett, 1 cesspool grate.....	1.95	
F. G. Lewis, 2 manhole covers.....	9.45	
Manchester Street Railway, labor .....	\$1.60	
1 No. 1 Barbour-Stockwell track drain .....	11.75	
express on same.....	2.50	
	<u>\$15.85</u>	
By 2 manhole frames and covers	10.39	
	<u>5.46</u>	
By balance unexpended.....		1,894.45
	<u>\$8,069.77</u>	<u>\$8,069.77</u>



## 639

ITEMIZED OPERATIONS.  
NEW CESSPOOLS.

STREET.	LOCATION.	Cost of material.	Labor.	Total cost
Ash (650).....	Pearl, northeast corner.....	\$16.27	\$17.86	\$34.13
Bay, west side (623).....	North of Clarke.....	19.86	17.40	37.26
Bay, east side (624).....	" ".....	18.31	7.08	25.39
Bay, (625).....	" ".....	20.36	12.10	32.46
Beech (626).....	" of Shasta (2).....	44.33	28.31	72.64
Central, West, south side (627).....	East of Canal.....	39.28	15.63	54.91
Central, West, west side (628).....	South of Lake avenue.....	16.06	26.20	42.26
Chestnut, west side (629).....	South of Merrimack.....	17.79	17.09	34.88
" " (630).....	South of Merrimack.....	12.84	6.98	19.82
" " (631).....	Auburn, northeast corner.....	17.40	8.96	26.36
" " (632).....	North of Auburn.....	20.49	10.15	30.64
" " (633).....	Between Laurel and Central.....	19.90	10.07	29.97
" " east side (633).....	" ".....	19.73	13.93	33.66
Depot (640).....	Canal, northeast corner.....	22.09	14.77	36.86
Franklin, west side (634).....	Market.....	19.53	26.40	45.93
" (635).....	Cedar, West, northwest corner.....	24.03	35.53	59.56
Hampshire lane, west side (636).....	South of Market, 87 feet.....	21.81	13.25	35.06
Hayward (648).....	Porter.....	25.53	12.90	38.03
Market, south side (637).....	Franklin.....	21.69	38.31	60.00
" " (638).....	Hampshire lane.....	26.97	14.62	41.59
" " north side (639).....	East of Franklin.....	20.16	17.68	37.84
Merrimack, south side (640).....	Between Lincoln and Wilson.....	19.15	16.31	35.47
Merrimack, south buck, north side (641).....	East of Pine, 20 feet.....	20.53	12.75	33.28
Orange (651).....	Ash, southeast corner.....	16.62	7.47	24.09
Pine, east side (642).....	South of Merrimack.....	23.35	11.14	34.49
" " (643).....	" " south back.....	21.97	7.85	29.82
" " (644).....	" of Laurel south back.....	18.00	8.85	26.85
" (652).....	Merrimack, northeast corner.....	22.89	18.08	40.97
River road (653).....	Thayer, northeast corner.....	23.18	20.32	43.51
Union (645).....	Spruce, southwest corner.....	192.99	14.36	207.35
Valley (646-647).....	Between Maple and Wilson (10).....	\$813.71	143.17	\$956.88
			\$542.08	\$1,356.39



## MANHOLES.

STREET.	LOCATION.	Cost of Material.	Labor.	Total cost.
*Auburn (686)	Manhattan lane	\$25.05	\$13.45	\$38.50
*Cedar south back (687)	"	22.78	11.20	33.98
*Chestnut (682)	Merrinack	20.16	18.34	38.50
*Elm (688)	Baker	20.93	6.67	27.60
*" (683)	South of Baker	20.93	6.68	27.61
Hampshire lane (683)	Rear of city hall (2)	.....	2.15	2.15
†Manchester (684)	Elm	.....	.95	.95
*Pine (685)	Merrinack south back	23.21	12.97	36.18
		\$133.06	\$72.41	\$205.47

\* New manholes.

† Raising manhole to grade.

## REPAIRING SEWERS.

STREET.	LOCATION.	Cost of Material.	Labor.	Total cost.
Adams, North (700)	North of Clarke.....	\$3.25	\$1.08	\$4.33
Amherst south back (717)	Between Beech and Maple.....	.....	13.08	13.08
Beech " east side (701)	South of Orange.....	3.25	1.08	4.33
Central (702)	".....	.27	2.04	2.31
Chestnut (689)	Pine.....	3.36	1.50	4.86
" (703)	North of Appleton (at culvert).....	2.94	14.67	17.61
" (704)	Between Central and Cedar.....	3.82	7.77	11.59
Hall (691)	Central.....	.....	13.42	13.42
" (692)	Between Manchester and Merrimack.....	8.23	7.55	15.78
" (693)	" Amherst and Hanover.....	.....	6.60	6.60
" (705)	South of Amherst.....	1.23	2.90	4.12
Harrison south back (690)	Between Lake avenue and Spruce.....	5.73	62.63	68.41
Hazel (719)	East of Chestnut.....	.....	2.59	2.59
Laurel avenue (716)	Between Harrison and Brook.....	1.78	6.75	8.53
Malvern (715)	" Laurel and Central.....	.....	22.12	22.12
Manhattan lane (720)	East High to Bridge.....	4.87	32.07	36.94
" (709)	Auburn.....	2.93	8.33	11.26
" (694)	" to Cedar south back.....	113.38	176.73	290.11
Market (706)	North of Auburn.....	.....	11.02	11.02
" (707)	Between Elm and Franklin.....	.....	13.34	13.34
" (713-714)	Franklin.....	.....	3.50	3.50
Merrimack (708)	At No. 569.....	62.52	123.70	186.22
Monadnock lane (695)	Between Lincoln and Maple.....	.....	1.32	1.32
" (696)	Union and Beech.....	.....	5.20	5.20
" (697)	East of Union.....	.....	5.50	5.50
Pine (698)	Laurel south back.....	.....	9.50	9.50
Prospect south back (699)	Laurel of Chestnut.....	4.78	5.50	10.28
Third (711)	East of Chestnut.....	8.75	5.63	14.38
Valley (712)	At Dr. Loxton's.....	.....	17.75	17.75
	Between Maple and Wilson.....	11.52	21.09	32.61
		\$244.35	\$614.35	\$858.70

## MISCELLANEOUS REPAIRS.

STREET.	NATURE OF WORK.	Cost (Labor).
Division No. 2 .....	Cleaning cesspools (721-743) .....	\$1,418.80
" 10 .....	" (744-747) .....	473.12
" 2 .....	Flushing sewers (748-753) .....	102.85
" 10 .....	" (754-755) .....	22.75
" 2 .....	Pumping out cellars (756-758) .....	9.55
		\$2,027.07

## (761) AMHERST STREET—East of Maple Street.

## Thawing out cesspool:

Labor of men .....	\$1.42	
Labor of teams.....	1.00	
		\$2.42

Date of work, March 13.

Charged to Clarence Stevens and credit will appear in 1909 report.

## (765) AMORY STREET—Cleaning Sewer.

Labor of men .....	\$1.44	
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Date of work, December 28.

Charged to Dan Cronin and credit will appear in 1909 report.

## (768) BEECH STREET—South of Portsmouth Railroad.

## Making sewer connections:

Labor of men .....	\$7.25	
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Date of work, September 4 and 5.

Charged to Derryfield Lumber Company and credit will appear in 1909 report.

## (773) BROOK STREET—Corner Chestnut.

## Repairing gas well:

125 brick .....	\$1.12	
1 bag Portland cement.....	.50	
1 manhole casting.....	15.00	
Labor of men .....	2.22	
		\$18.84

Date of work, June 4.

Charged to People's Gas-Light Co. and credit will appear in 1909 report.

## (771) CLAY STREET—Northwest Corner Cypress.

## Pumping out cellar:

Labor of men.....	\$1.65	
Labor of teams.....	1.36	
		\$3.01

Date of work, January 1.

Charged to Woodbury Davison and credit will appear in 1909 report.

## (770) ELM STREET—Rear of No. 651 and No. 653.

## Making sewer connection:

Labor of men.....	\$39.70	
Labor of teams .....	6.75	
		\$46.45

Date of work, August 11 to 14.

Charged to William Goodwin and credit will appear in 1909 report.



(760) ELM STREET—Northeast Corner of Orange.

Flushing out private cesspool:

Labor of men .....	\$3.33	
Labor of teams.....	.73	
	<hr/>	\$4.06

Charged to W. D. Young and credit will appear in 1909 report.

(762-763) HANOVER STREET—At Hanover-Street Laundry.

Flushing out private connection and sewer:

Labor of men.....	\$12.36	
Labor of teams.....	6.33	
	<hr/>	\$18.69

Date of work, December 2 and 19.

Charged to J. H. Geisel and credit will appear in 1909 report.

(769) LAKE AVENUE—Northwest Corner of Hall.

Making sewer connection at Odd Fellows' block:

Labor of men.....	\$26.90	
Labor of teams .....	.87	
	<hr/>	\$27.77

Date of work, November 9 and 10.

Charged to W. E. Goodwin and credit will appear in 1909 report.

(772) LAKE AVENUE—At Prescott's Creamery.

Pumping out well:

Labor of men.....	\$1.12	
Labor of teams.....	.88	
	<hr/>	— \$2.00

Date of work, March 25.

Charged to W. E. Prescott and credit will appear in 1909 report.

(767) MANCHESTER STREET—East Side at Elm.

Taking out round frame and grate and filling up one cesspool in track and replacing round frame and grate with track drain in second cesspool:

Labor of men .....	\$1.21	
Labor of teams.....	.39	
	<hr/>	\$1.60
1 No. 1 Barbour-Stockwell track drain....	11.75	
Express on same.....	2.50	
	<hr/>	\$15.85
Credit 2 20½ M. H. frames and grates, 630 lbs. @ \$0.0165 .....	10.39	
	<hr/>	\$5.46

Date of work, October 20.

Charged to Manchester Street Railway and credit appears under repairs of sewers, financial.

## (774) MANCHESTER STREET—Corner Pine.

## Repairing gas well:

150 brick .....	\$1.35	
1 bag Portland cement.....	.47	
1 manhole casting.....	15.00	
Labor of men .....	8.65	
		<hr/>
		\$25.47

Date of work, September 21.

Charged to People's Gas-Light Co. and credit will appear in 1909 report.

## (775) MERRIMACK STREET—Corner Pine Street.

## Repairing gas well:

150 brick .....	\$1.35	
1 bag Portland cement .....	.47	
1 manhole casting .....	15.00	
Labor of men .....	2.81	
		<hr/>
		\$19.63

Date of work, September 18.

Charged to the People's Gas-Light Co. and credit will appear in 1909 report.

## (766) PINE WEST BACK STREET—Rear of Worthen Flats.

## Repairing break in blind connection:

½ bag Portland cement.....	\$0.25	
Brick and crushed stone.....	.25	
Labor of men .....	7.13	
		<hr/>
		\$7.63

Date of work, August 5, 6 and 7.

Charged to S. T. Worthen and credit will appear in 1909 report.

## (764) SPRUCE STREET—Corner Massabesic Street.

## Digging up and cleaning out sewer connections:

Labor of men.....	\$14.28	
Labor of teams.....	7.87	
		<hr/>
		\$22.15

Date of work, January 28, 29 and 30.

Charged to M. K. McLaughlin and credit will appear in 1909 report.

## (759) Unloading 1 Carload of Brick.

Labor of men.....	\$3.17	
Date of work, August 26,		

# Board of Street and Park Commissioners in account with the Appropriation for New Sewers.

## By sewer pipe, Manchester Supply Company:

800 feet of 24" .....	\$851.50	
482 feet of 20" .....	355.18	
584 feet of 18" .....	325.14	
864 feet of 15" .....	312.01	
2,338 feet of 12" .....	625.41	
3,828 feet of 10" .....	767.99	
1,458 feet of 8" .....	206.48	
1,804 feet of 6" .....	144.77	
	<hr/>	\$3,588.48

89 6" on 12" Ys .....	\$107.14	
111 6" on 10" Ys .....	100.96	
24 6" on 8" Ys .....	14.44	
34 8" on 12" Ys .....	40.93	
21 8" on 10" Ys .....	19.10	
22 8" on 8" Ys .....	13.24	
5 6" on 10" Ts .....	4.55	
6 6" on 12" Ts .....	7.22	
	<hr/>	307.58

Discount for cash .....	\$77.01	\$3,896.06
Credit by freight paid .....	174.34	
	<hr/>	251.35
		<hr/>
		\$3,644.71

Pike & Heald Co., 10 feet 12" Akron pipe .....	3.50
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## By brick:

W. F. Head & Son, 11,870 brick @ \$8.50		
per M. ....	\$100.90	
Credit by freight paid .....	\$12.00	
Discount for cash, 5 days.....	.89	
	<hr/>	
	12.89	
	<hr/>	
		88.01

## By cement, Henry W. Parker:

600 bags Atlas Portland @ 47½c .....	\$283.50	
Discount for cash, 5 days .....	2.84	
	<hr/>	280.66

## By castings, The Sessions Foundry Co.:

12 20½" manhole frames, 2,391 lbs. @	
\$0.0165 .....	\$39.45
Discount for cash, 5 days.....	.39
	<hr/>
	39.06

## By lumber:

The Head & Dowst Co.:	
75 feet Georgia pine @ \$50.00 .....	3.75

The J. H. Mendell Co.:		
6,912 feet sewer bracing @ \$22.00.....	\$152.06	
5,152 feet fence boards @ \$22.00.....	113.34	
	<hr/>	
	\$265.40	
Discount for cash, 4 days.....	2.65	
	<hr/>	\$262.75
Pike & Smith:		
43,600 feet spruce sewer plank @ \$21.50	\$937.40	
Discount for cash, 5 days.....	18.74	
	<hr/>	918.66
Mrs. Luther S. Proctor:		
4 loads blasting logs @ \$4.50.....		18.00
By coal:		
L. B. Bodwell & Co.:		
15.10 tons Cumberland @ \$5.00.....	\$75.51	
1.00 tons steam @ \$5.50.....	5.50	
J. P. Russell:		
2 tons steam @ \$5.50.....	11.00	
700 lbs. soft @ \$5.50.....	1.93	
	<hr/>	93.94
By oil, Arthur A. Warren:		
550 gallons kerosene @ 10c. ....		55.00
By supplies:		
John B. Varick Co.:		
Dynamite and exploders .....	\$593.87	
Lanterns and globes .....	21.08	
Miscellaneous supplies .....	193.45	
	<hr/>	
	\$808.40	
Credit by discount and overcharge.....	39.35	
	<hr/>	\$769.05
The B. H. Piper Co., 20 doz. pick handles		
@ 50c. ....	10.00	
The Head & Dowst Co., 1 idler.....	4.00	
Drew Machinery Agency, 1 handhole yoke	1.00	
E. M. Bryant Co., 75 ft. twisted wire.....	1.32	
A. T. Beaumier, 2 pairs rubber boots....	7.00	
Geo. W. Dodge Shoe Co.:		
8 pairs rubber boots @ \$3.00.....	24.00	
3 pairs rubber boots @ \$3.75.....	11.25	
Pike & Heald Co., steam fitting, etc.....	4.09	
Henry W. Parker, oatmeal .....	3.75	
	<hr/>	835.46
By labor:		
Gustaf Hogland, splicing wire rope on trench machine		3.00
By freight:		
Boston & Maine Railroad .....		186.34

## By labor:

Payroll Division No. 2 .....	\$3,745.74	
Payroll Division No. 7 .....	6,292.04	
Payroll Division No. 10 .....	520.58	
		\$10,558.36

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 \$16,991.20

To appropriation for new sewers.....	\$25,000.00	
Pike & Heald (new sewer pipe).....	8.70	
Joseph Coveney (cracked sewer pipe)...	.96	
August Peach (cracked sewer pipe).....	3.72	
William O'Donnell (new sewer pipe)....	2.08	
J. B. Moquin (new sewer pipe).....	5.41	
R. F. Welch (cracked sewer pipe).....	3.00	
Adams Bros. (new sewer pipe).....	25.57	
Water Works ( $\frac{1}{2}$ cost of excavating Beech street sewer trench, Somerville to Portsmouth railroad) .....	1,244.33	
Elliot hospital (new sewer pipe).....	15.36	
Stevens & Bradley (new sewer pipe)...	24.00	
F. D. Leighton (labor making sewer connection) .....	1.18	
The J. H. Mendell Co. (new sewer pipe) town of Hooksett (new sewer pipe, ce- ment and cesspool grates) .....	5.04	
	39.23	
By balance unexpended .....		9,387.38
	<hr/>	<hr/>
	\$26,378.58	\$26,378.58

## ITEMIZED OPERATIONS.

(192-194) ALSACE STREET—Kelley Street Northerly.

564 feet of 10" Akron @ 20c.....	\$112.80	
21 6" on 10" Ys @ 91c.....	19.11	
24 feet of 6" Akron @ 8c.....	1.92	
	<hr/>	\$133.83
2 manholes, 1,800 brick @ \$9.00 per M....	\$16.20	
2 manhole castings @ \$5.61.....	11.22	
3 manhole steps @ 20c.....	.60	
	<hr/>	34.63
14 bags Portland cement @ $47\frac{1}{4}$ c.....		2.84
Labor of men .....	\$262.85	
Labor of teams .....	18.00	
	<hr/>	280.85
		<hr/>
		\$452.15

Length of sewer, 606 feet.

Average cut, 8 feet.

Cost per foot, \$0.746.

Began September 3, finished September 19.

Nature of excavation, sand.

(195-197) BEECH STREET—Shasta Street Northerly.

320 feet of 12" Akron @ 26¾c.....	\$85.60	
10 6" on 12" Ys @ \$1.20½.....	12.05	
		\$97.65
2 manholes, 1,800 brick @ \$9.00 per M....	\$16.20	
2 manhole castings @ \$10.065.....	20.13	
8 manhole steps at 20c.....	1.60	
16 bags Portland cement @ 47¼c.....	7.56	
		45.49
5 bags Portland cement @ 47¼c.....		2.36
2.35 tons steam coal @ \$5.50.....		12.93
30 lbs. 75% dynamite @ 27c.....	\$8.10	
100 6' double exploders .....	3.88	
		11.98
Labor of men .....	\$218.46	
Labor of teams .....	18.00	
		236.46
		<u>\$406.87</u>

Length of sewer, 340 feet.

Average cut, 10.5 feet.

Cost per foot, \$1.196.

Began July 7, finished July 20.

Nature of excavation, sand.

(198) BEECH STREET—South of Orange Street Southerly.

48 feet of 8" Akron @ 13½c.....	\$6.48	
1 6" on 8" Y @ 63½c.....	.63	
3 8" on 8" Ys @ 63½c.....	1.90	
		\$9.01
4 feet of 8" pipe (lamphole) @ 13½c.....	\$0.54	
1 lamphole frame and cover @ \$3.62.....	3.62	
		4.16
½ bag Portland cement @ 47¼c.....		.24
Labor of men .....	\$44.36	
Labor of teams .....	4.37	
		48.73
		<u>\$62.14</u>

Length of sewer, 56 feet.

Average cut, 5.5 feet.

Cost per foot, \$1.109.

Began July 7, finished July 14.

Nature of excavation, gravel.



## (199) BROOKLINE AVENUE—Jewett Street to Cypress Street.

290 feet of 10" Akron @ 20c.....	\$58.00	
9 6" on 10" Ys @ 91c.....	8.19	
3 8" on 10" Ys @ 91c.....	2.73	
		\$69.92
1 manhole, 1,600 brick @ \$9.00 per M.....	\$14.40	
1 manhole casting @ \$10.065.....	10.07	
2 manhole steps @ 20c.....	.40	
10 bags Portland cement @ 47¼c.....	4.72	
		29.59
3 lamphole castings @ \$3.62.....		10.86
3 bags Portland cement @ 47¼c.....		1.42
2 tons coal @ \$5.00.....		10.00
Blasting poles .....	\$2.00	
150 lbs. 75% dynamite @ 27c.....	40.50	
200 6' double exploders .....	6.76	
		49.26
Labor of men .....	\$221.99	
Labor of teams .....	13.50	
		235.49
		\$406.54

Length of sewer, 314 feet.

Average cut, 6.5 feet.

Cost per foot, \$1.294.

Began November 14, finished November 27.

Nature of excavation, gravel and ledge.

## (200-201) CENTRAL STREET—Manhattan Lane Westerly.

12 feet of 12" Akron @ 26¾c.....	\$3.21
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## MANHATTAN LANE—Central street Southerly.

50 feet of 24" Portland @ \$1.07¼.....	\$53.62	
10 feet of 20" Portland @ 74¼c.....	7.42	
52 feet of 12" Portland @ 24c.....	12.48	
4 6" on 12" Ys @ \$1.08.....	4.32	
2 8" on 12" Ys @ \$1.08.....	2.16	
6 feet of 8" Akron (lamphole) @ 13½c....	.81	
3 12" bends @ \$1.07.....	3.21	
		\$84.02
1 manhole, 2,000 brick @ \$9.00 per M.....	\$18.00	
1 manhole casting @ \$10.065.....	10.07	
4 manhole steps @ 20c.....	.80	
12 bags Portland cement @ 47¼c.....	5.67	
		34.54

13 bags Portland cement @ 47¼c.....		\$3.14
Labor of men .....	\$226.87	
Labor of teams .....	25.25	
		<hr/>
		252.12
		<hr/>
		\$380.03

Length of sewer, both streets (top and bottom) 72 feet.

Average cut, 15 feet.

Cost per foot, \$5.264. This cost per foot includes top and bottom sewers.

Began January 6, finished January 27.

Nature of excavation, sand.

(202-206) CHESTNUT STREET—Central South Back to Laurel.

120 feet of 12" Akron @ 26¾c.....	\$32.10	
246 feet of 10" Akron @ 20c.....	49.20	
3 8" on 12" Ys @ \$1.20½.....	3.61	
2 8" on 10" Ys @ 91c.....	1.82	
114 feet of 8" Akron (cesspool) at 13½c..	15.10	
		<hr/>
		\$101.83
2 manholes, 2,000 brick at \$9.00 per M....	\$18.00	
1 manhole casting @ \$10.065.....	10.07	
8 manhole steps at 20c.....	1.60	
12 bags Portland cement @ 47¼c.....	5.67	
		<hr/>
		35.34
8 bags Portland cement @ 47¼c.....		3.78

LAUREL STREET—Chestnut Street Easterly.

22 feet 10" Akron @ 20c.....	\$4.40	
2 8" on 10" Ys @ 91c.....	1.82	
40 feet of 8" Akron (cesspool) @ 13½c...	5.40	
		<hr/>
		\$11.62
2 bags Portland cement @ 47¼c.....		.95
Labor of men .....	\$282.59	
Labor of teams .....	10.50	
		<hr/>
		293.09
		<hr/>
		\$445.61

Length of sewer, both streets, 402 feet.

Average cut, 7.5 feet.

Cost per foot, \$1.108.

Began August 4, finished August 13.

Nature of excavation, sand, gravel, and clay.

(207-208) CLAY STREET—Taylor Street Easterly.

138 feet of 8" Akron @ 13½c.....	\$18.63	
6 6" on 8" Ys @ 63⅓c.....	3.80	
		<hr/>
		\$22.43

1 manhole, 900 brick at \$9.00 per M.....	\$8.10	
1 manhole casting @ \$10.065 .....	10.07	
3 manhole steps @ 20c. ....	.60	
6 bags Portland cement @ 47¼c.....	2.84	
		<hr/>
		\$21.61
1 bag Portland cement @ 47¼c.....		.47
1 ton coal @ \$5.00.....		5.00
Blasting poles .....	\$2.00	
150 lbs. 75% dynamite @ 27c.....	40.50	
200 6' double exploders @ \$3.87.....	7.74	
		<hr/>
		50.24
Labor of men .....	\$119.25	
Labor of teams .....	18.00	
		<hr/>
		137.25
		<hr/>
		\$237.00

Length of sewer, 150 feet.

Average cut, 8.5 feet.

Cost per foot, \$1.58.

Began October 15, finished October 17.

Nature of excavation, gravel and ledge.

(209-210) CLAY STREET—Cypress Street Westerly.

322 feet of 10" Akron @ 20c.....	\$64.40	
46 feet of 8" Akron @ 13½c.....	6.21	
14 6" on 10" Ys @ 91c.....	12.74	
2 6" on 8" Ys @ 63½c.....	1.27	
		<hr/>
		\$84.62
1 manhole, 900 brick @ \$9.00 per M.....	\$8.10	
1 manhole casting @ \$10.065.....	10.07	
3 manhole steps @ 20c.....	.60	
6 bags Portland cement @ 47¼c.....	2.84	
		<hr/>
		21.61
4 bags Portland cement @ 47¼c.....		1.89
2.7 tons coal @ \$5.00.....		13.50
Blasting poles .....	\$2.00	
250 lbs. 75% dynamite @ 27c.....	67.50	
400 6' double exploders @ \$3.87.....	15.48	
		<hr/>
		84.98
Labor of men .....	\$490.31	
Labor of teams .....	51.75	
		<hr/>
		542.06
		<hr/>
		\$748.66

Length of sewer, 400 feet.

Average cut, 8 feet.

Cost per foot, \$1.871.

Began October 1, finished October 28.

Nature of excavation, gravel and ledge.

## (211-214) CLAY STREET—Cypress Street to Jewett Street.

405 feet of 12" Akron @ 26¾c.....	\$108.33	
15 6" on 12" Ys @ \$1.20½.....	18.07	
2 8" on 12" Ys @ \$1.20½.....	2.41	
		<hr/>
1 manhole, 900 brick @ \$9.00 per M.....	\$8.10	\$128.81
1 manhole casting @ \$10.065.....	10.07	
3 manhole steps @ 20c.....	.60	
7 bags Portland cement @ 47¼c.....	3.31	
		<hr/>
6 bags Portland cement @ 47¼c.....		22.08
4.8 tons coal at \$5.00.....		2.84
		<hr/>
Blasting poles .....	\$2.00	24.00
300 lbs. 75% dynamite @ 27c.....	\$1.00	
100 6' double exploders @ \$3.87.....	3.87	
100 8' double exploders @ \$4.35.....	4.35	
		<hr/>
Labor of men .....	\$873.52	91.22
Labor of teams .....	81.00	
		<hr/>
		954.52
		<hr/>
		\$1,223.47

Length of sewer, 439 feet.

Average cut, 6.5 feet.

Cost per foot, \$2.787.

Began September 1, finished September 29.

Nature of excavation, gravel and ledge.

## (215-216) CYPRESS STREET—South of Hayward Southerly.

296 feet of 10" Akron @ 20c.....	\$59.20	
1 6" on 10" Y @ 91c.....	.91	
78 feet 10" Akron @ 20c.....	15.60	
		<hr/>
1 manhole, 1,000 brick @ \$9.00 per M.....	\$9.00	\$75.71
1 manhole casting @ \$10.065.....	10.07	
2 manhole steps @ 20c.....	.40	
7 bags Portland cement @ 47¼c.....	3.31	
		<hr/>
2 bags Rosendale cement @ 41½c.....		22.78
		.83
Labor of men .....	\$129.30	
Labor of teams .....	4.50	
		<hr/>
		133.80
		<hr/>
		\$233.12

Length of sewer, 298 feet.

Average cut, 8.5 feet.

Cost per foot, \$0.782.

Began June 26, finished June 31.

Nature of excavation, gravel.

(217-218) ELM STREET—North of Baker Street to South of Baker.

530 feet of 10" Akron @ 20c.....	\$106.00	
20 6" on 10" Ys @ 91c.....	18.20	
1 8" on 10" Y @ 91c.....	.91	
6 feet of 8" Akron (lamphole) @ 13½c....	.81	
		\$125.92
6 bags Portland cement @ 47¼c.....		2.84
1 lamphole frame and cover @ \$3.62.....		3.62
Labor of men .....	\$182.40	
Labor of teams .....	5.25	
		187.65
		\$320.03

Length of sewer, 572 feet.

Average cut, 6 feet.

Cost per foot, \$0.559.

Began October 28, finished November 6.

Nature of excavation, sand.

(219-223) GLENWOOD AVENUE—Revere Avenue Easterly.

124 feet of 18" Akron @ 56c.....	\$69.44	
4 bags Portland cement @ 47¼c.....	1.89	
.8 ton coal @ \$5.00.....	4.00	
Blasting poles .....	\$2.00	
450 lbs. 75% dynamite @ 27c.....	121.50	
700 6" double exploders @ \$3.87.....	22.27	
50 4" double exploders @ \$3.38.....	1.69	
		147.46
Labor of men .....	\$1,140.46	
Labor of teams.....	51.75	
		\$1,192.21
		\$1,415.00

Length of sewer, 124 feet.

Average cut, 12 feet.

Cost per foot, \$11.411.

Began November 2, finished December 15.

Nature of excavation, gravel and ledge.

The high cost per foot is due to the fact that a much greater length was excavated than the length of pipe laid.

(224-226) HARRISON STREET—Linden Easterly.

92 feet of 12" Akron @ 26¾c.....	\$24.61	
4 6" on 12" Ys @ \$1.20½.....	4.82	
76 feet of 10" Akron @ 20c.....	15.20	
4 6" on 10" Ys @ 91c.....	3.64	
		\$48.27

1 manhole, 1,000 brick @ \$9.00 per M.....	\$9.00	
1 manhole casting @ \$10.065.....	10.07	
4 manhole steps @ 20c.....	.80	
6 bags Portland cement @ 47 $\frac{1}{4}$ c.....	2.83	
		\$22.70
2 bags Portland cement @ 47 $\frac{1}{4}$ c.....		.95
Labor of men .....	\$218.66	
Labor of teams .....	13.50	
		232.16
		\$304.08

Length of sewer, 184 feet.

Average cut, 7.5 feet.

Cost per foot, \$1.652.

Began August 14, finished August 28.

Nature of excavation, gravel and boulders.

(227-231) HAYWARD STREET—Knowlton Street to Mammoth Road.

286 feet of 15" Akron @ 36c.....	\$102.96	
2 6" on 15" Ys @ \$1.63.....	3.26	
		\$106.22

MAMMOTH ROAD—Hayward Street Southerly.

432 feet of 15" Akron @ 36c.....	\$155.52	
4 6" on 15 Ys @ \$1.63.....	6.52	
		162.04
3 manholes, 2,700 brick @ \$9.00 per M....	\$24.30	
3 manhole castings @ \$10.065.....	30.20	
6 manhole steps @ 20c.....	1.20	
14 bags Portland cement @ 47 $\frac{1}{4}$ c.....	5.61	
		60.31
10 bags Portland cement @ 47 $\frac{1}{4}$ c.....		4.72
4.7 tons coal @ \$5.00.....		23.50
Blasting poles .....	\$4.00	
200 lbs. 75% dynamite @ 27c.....	54.00	
200 lbs. 60% dynamite @ 23c.....	46.00	
100 4-ft. double exploders @ \$3.38.....	3.38	
450 6-ft. double exploders @ \$3.87.....	17.42	
50 8-ft. double exploders @ \$4.36.....	2.18	
		\$126.98
Labor of men .....	\$1,160.71	
Labor of teams .....	81.00	
		1,241.71
		\$1,725.48

Length of sewer, both streets, 730 feet.

Average cut, 8 feet.

Cost per foot, \$2.363.

Began July 14, finished September 1.

Nature of excavation, gravel and ledge.



(232-233) HEVEY EAST BACK—North of Kelley Street Northerly.

154 feet of 10" Akron @ 20c.....	\$30.80	
6 6" on 10" Ys @ 91c.....	5.46	
1 8" on 10" Y @ 91c.....	.91	
6 feet of 8" pipe (lamphole) @ 13½c.....	.81	
		<hr/>
		\$37.98
1 lamphole casting.....		3.62
5 bags Portland cement @ 47¼c.....		2.36
Labor of men .....	\$58.50	
Labor of teams.....	4.50	
		<hr/>
		63.00
		<hr/>
		\$106.96

Length of sewer, 166 feet.

Average cut, 10.5 feet.

Cost per foot, \$0.644.

Began June 19, finished June 20; began July 22, finished July 25.

Nature of excavation, sand.

(234-235) EAST HIGH—Belmont Street Westerly.

173 feet of 10" Akron @ 20c.....	\$34.60	
4 8" on 10" Ys @ 91c.....	3.64	
		<hr/>
		\$38.24
40 brick @ \$9.00 per M.....	\$0.36	
2 bags Portland cement @ 47¼c.....	.95	
		<hr/>
		1.31
Labor of men .....	\$74.29	
Labor of teams .....	5.25	
		<hr/>
		79.54
		<hr/>
		\$119.09

Length of sewer, 181 feet.

Average cut, 7 feet.

Cost per foot, \$0.658.

Began August 28, finished August 29.

Nature of excavation, gravel.

(236-238) HOWE STREET—Maple Street to Wilson Street.

1,189 feet of 12" Akron @ 26¾c.....	\$318.05	
42 6" on 12" Ys @ \$1.20½.....	50.61	
276 feet of 6" Akron (connections) @ 8c..	22.08	
		<hr/>
		\$390.74
5 manholes, 3,650 brick @ \$9.00 per M....	\$32.85	
5 manhole castings @ \$10.065.....	50.33	
15 manhole steps @ 20c.....	3.00	
19 bags Portland cement @ 47¼c.....	8.98	
		<hr/>
		95.16

17 bags Portland cement @ 47¼c.....		\$8.03
Labor of men .....	\$563.34	
Labor of team .....	40.50	
		<hr/> 603.84

\$1,097.77

Length of sewer, 1,273 feet.

Average cut, 8.5 feet.

Cost per foot, \$0.862.

Began September 2, finished September 18.

Nature of excavation, sand.

(239-240) LAUREL STREET—Wilson Street Easterly.

144 feet of 10" Akron @ 20c.....	\$28.80	
5 6" on 10" Ys @ 91c.....	4.55	
1 8" on 10" Y @ 91c.....	.91	
24 feet of 8" pipe (cesspool) @ 13½c.....	3.24	
30 feet of 6" pipe (cesspool) @ 8c.....	2.40	
		<hr/> \$39.90
5 bags Portland cement @ 47¼c.....		2.36
Labor of men .....	\$152.75	
Labor of teams .....	9.00	
		<hr/> 161.75

\$204.01

Length of sewer, 156 feet.

Average cut, 10.5 feet.

Cost per foot, \$1.307.

Began December 9, finished December 19.

Nature of excavation, sand.

(241-242) MILL AVENUE—Brown Avenue Westerly.

160½ feet of 24" Akron @ \$1.07⅓.....	\$172.27	
1 6" on 24" Y @ \$4.78.....	4.78	
2 8" on 24" Ys @ \$4.78.....	9.56	
		<hr/> \$186.61
1 manhole, 1,600 brick @ \$9.00 per M....	\$14.40	
1 manhole casting @ \$10.065.....	10.07	
4 manhole steps @ 20c.....	.80	
6 bags Portland cement @ 47¼c.....	2.84	
		<hr/> 28.11
8 bags Portland cement @ 47¼c.....		3.78
Labor of men .....	\$266.15	
146 carfares @ 5c.....	7.30	
		<hr/> 273.45

\$491.95

Length of sewer, 168 feet.

Average cut, 10.5 feet.

Cost per foot, \$2.928.

Began August 31, finished September 14.

Nature of excavation, sand.

(243-244) REVERE AVENUE—Oakland Avenue to Glenwood Avenue.

293 feet of 24" Akron @ \$1.07 $\frac{1}{3}$ .....	\$314.49	
1 6" on 24" Y @ \$4.78.....	4.78	
		\$319.27
1 manhole, 800 brick @ \$9.00 per M.....	\$7.20	
1 manhole casting @ \$10.065.....	10.07	
3 manhole steps @ 20c.....	.60	
6 bags Portland cement @ 47 $\frac{1}{4}$ c.....	2.84	
		20.71
14 bags Portland cement @ 47 $\frac{1}{4}$ c.....		6.61
Labor of men .....	\$571.54	
Labor of teams.....	13.50	
		585.04
		\$931.63

Length of sewer, 295 feet.

Average cut, 9 feet.

Cost per foot, \$3.158.

Began October 1, finished October 30.

Nature of excavation, gravel (filled ground).

(257-258) SECOND STREET—Frederick Northerly.

116 feet of 10" Akron @ 20c.....	\$23.20	
1 6" on 10" Y @ 91c.....	.91	
		\$24.11
1 manhole, 900 brick @ \$9.00 per M.....	\$8.10	
1 manhole casting @ \$5.61.....	5.61	
7 bags Portland cement @ 47 $\frac{1}{4}$ c.....	3.31	
		17.02
2 bags Portland cement @ 47 $\frac{1}{4}$ c.....		.95
Labor of men .....		91.49
		\$133.57

Length of sewer, 118 feet.

Average cut, 7.5 feet.

Cost per foot, \$1.132.

Began November 10, finished November 14.

Nature of excavation, sand.

(245-246) SOMERVILLE STREET—Belmont Street Easterly.

228 feet of 10" Akron @ 20c.....	\$65.60	
11 6" on 10" Ys @ 91c.....	10.01	
		\$75.61
2 manholes, 2,200 brick @ \$9.00 per M....	\$19.80	
2 manhole castings @ \$10.065.....	20.13	
6 manhole steps @ 20c.....	1.20	
10 bags Portland cement @ 47 $\frac{1}{4}$ c.....	4.72	
		45.85

3 bags Portland cement @ 47 $\frac{1}{4}$ c.....	\$1.42	
Labor of men .....	\$141.80	
Labor of teams .....	13.50	
		<hr/>
		155.30
		<hr/>
		\$274.70

Length of sewer, 350 feet.

Average cut, 8 feet.

Cost per foot, \$0.794.

Began July 10, finished July 14.

Nature of excavation, sand.

(247-248) SPRINGVIEW AVENUE—Somerville Northerly.

166 feet of 8" Akron @ 13 $\frac{1}{2}$ c.....	\$22.41	
7 6" on 8" Ys @ 63 $\frac{1}{3}$ c.....	4.43	
		<hr/>
		\$26.84
2 manholes, 1,600 brick @ \$9.00 per M.....	\$14.40	
2 manhole castings @ \$10.065.....	20.13	
4 manhole steps @ 20c.....	.80	
9 bags Portland cement @ 47 $\frac{1}{4}$ c.....	4.25	
		<hr/>
		39.58
1 bag Portland cement @ 47 $\frac{1}{4}$ c.....	.47	
1.1 tons of coal @ \$5.00.....	5.50	
Blasting poles .....	\$2.00	
50 lbs. 60% dynamite @ 23c.....	11.50	
100 lbs. 75% dynamite @ 27c.....	27.00	
100 4-ft. double exploders @ \$3.38.....	3.38	
100 6-ft. double exploders @ \$3.87.....	3.87	
		<hr/>
		47.75
Labor of men .....	\$418.08	
Labor of teams .....	9.00	
		<hr/>
		\$427.08
		<hr/>
		\$547.22

Length of sewer, 180 feet.

Average cut, 8 feet.

Cost per foot, \$3.04.

Began July 7, finished July 28.

Nature of excavation, gravel, boulders and ledge.

(259) FREDERICK STREET—Second Westerly.

216 feet of 6" Akron @ 10c.....	\$21.60	
1 8" on 6" Y @ 43c.....	.43	
		<hr/>
		\$22.03
3 bags Portland cement @ 47 $\frac{1}{4}$ c.....	1.42	
Labor of men .....	62.12	
		<hr/>
		\$85.57

Length of sewer, 218 feet.

Average cut, 7 feet.

Cost per foot, \$0.392.

Began December 20, finished December 24.

Nature of excavation, sand.

This work done for John Foster. Credit will appear in the 1909 report.

(256) MAPLE STREET—West Side, Opposite Dix Street.

236 feet of 8" pipe @ 16c.....	\$37.76	
1 8" on 8" Y @ 72c.....	.72	
		\$28.48
1 manhole, 1,060 brick @ \$9.00 per M....	\$9.54	
1 manhole casting @ \$9.075.....	9.08	
9 bags Portland cement @ 47 $\frac{1}{4}$ c.....	4.25	
		22.87
1 bag Portland cement @ 47 $\frac{1}{4}$ c.....		.47
1 C. P. trap.....		1.94
Labor of men.....	\$93.88	
Labor of teams.....	10.50	
		104.38
		\$168.14

Length of sewer, 238 feet.

Average cut, 7 feet.

Cost per foot, \$0.701.

Began March 14, finished March 18.

Nature of excavation, sand.

This work done for the Bachelder-Worcester Company. Credit will appear in the 1909 report.

(249-252) Unloading Sewer Pipe at City Yard (Valley Street).

June 10-12. 4 cars, labor of men.....	\$22.17
29. 1 car, labor of men.....	10.18
Aug. 5-11. 12 cars, labor of men.....	43.73
Sept. 18. 1 car, labor of men.....	2.72
	\$78.80

(253-255) Unloading Cement at City Yard (Granite Street.)

Aug. 27. 1 car, labor of men.....	\$1.70	
labor of teams.....	1.62	
		\$3.32
Sept. 12. 1 car, labor of men.....	\$2.62	
labor of teams.....	3.50	
		6.12
Oct. 3. 1 car, labor of men.....	\$2.05	
labor of teams.....	1.77	
		3.82
		\$13.26

(788) CHESTNUT EAST BACK STREET—North of North Street.

Making sewer connection:

Labor of men.....	\$0.68	
Labor of teams.....	.50	
		<u>\$1.18</u>

Charged to F. D. Leighton and credit for same appears under appropriation for new sewers, financial.

(789-790) GRANITE SOUTH BACK STREET—At C. A. Allen Beef Co.

Work on drains, cesspool, sewer connection and relaying paving:

Brick .....	\$5.40	
Cement .....	1.00	
Broken stone .....	4.50	
		<u>\$10.90</u>
Labor of men .....	\$8.36	
Labor of teams .....	4.50	
		<u>12.86</u>
		<u>\$23.76</u>

Charged to Connor Bros. and credit will appear in 1909 report.



SEWER PIPE AND SPECIALS.  
PURCHASE AND INSPECTION TABLE AS PER CONTRACT.

PIPE.	Shipped.		Accepted.		Value.	Rejected.		Value.	Per cent breakage.
	Feet.	Number.	Feet.	Number.		Feet.	Number.		
6 inch.....	2,012	.....	1,804	.....	\$ 144.77	208	.....	\$16.69	.103
8 inch.....	1,264	.....	1,210	.....	161.84	54	.....	7.22	.043
6x8 Y's.....	.....	24	.....	24	14.44	.....	.....	.....	.....
8x8 Y's.....	.....	24	.....	22	13.24	.....	2	1.21	.083
10 inch.....	4,082	.....	3,828	.....	767.99	254	.....	50.96	.062
6x10 Y's.....	.....	124	.....	111	100.96	.....	13	11.93	.105
6x10 T's.....	.....	10	.....	5	4.55	.....	5	4.55	.500
8x10 Y's.....	.....	24	.....	21	19.10	.....	3	2.73	.125
12 inch.....	2,534	.....	2,338	.....	625.41	196	.....	52.43	.077
6x12 Y's.....	.....	99	.....	89	7.22	.....	10	13.04	.101
6x12 T's.....	.....	10	.....	6	.....	.....	4	4.82	.400
8x12 Y's.....	.....	39	.....	34	40.93	.....	5	6.02	.128
15 inch.....	904	.....	864	.....	312.01	40	.....	14.45	.044
18 inch (extra heavy).....	608	.....	584	.....	325.14	24	.....	13.36	.039
20 inch (extra heavy).....	504	.....	482	.....	355.18	22	.....	16.21	.044
24 inch (extra heavy).....	810	.....	800	.....	851.50	10	.....	10.05	.012
	12,817	354	11,910	312	\$3,851.42	808	43	\$226.27	.055

Per cent breakage represents the per cent broken in value (not list price).

Cost of labor unloading pipe and specials.....	\$93.80
Cost of teams unloading pipe and specials.....	18.00
Cost of inspection .....	69.00

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 \$180.80

Number of cars of pipe and specials, 23.

Average cost per car for unloading, inspection, etc., \$7.86.

### Board of Street and Park Commissioners In account with the Appropriation for Brown-Tail and Gypsy Moth.

By supplies, Munson-Whitaker Co.:

1 pair 17" Dicke climbers comp. strap and pads .....	\$4.60	
less 50% discount .....	\$2.30	
less cash paid for telephone (Harkins) .....	.10	
	<hr/>	2.40 —
		\$2.20

John B. Varick Co.:

1 16-ft. pruner.....	\$0.75	
2 16-ft. pruners @ \$1.00.....	2.00	
15 lbs. arsenate of lead @ 19c.....	2.85	
1 Farrell spray pump.....	7.50	
50 ft. ½" hose @ 8½c.....	4.25	
1 nozzle .....	.75	
1 nozzle .....	1.50	
1 nozzle .....	1.00	
2 oil barrels @ \$1.25.....	2.50	
	<hr/>	23.10

Harry Eaton, overcharged (refunded).....	3.50
Elmer R. Laing, overcharged (refunded).....	5.08
E. H. Clough, postmaster, 5,000 1c. stamped envelopes	56.20
Head & Dowst Co., 1 pole for moth cutter.....	.50

By printing:

4,000 brown-tail moth circulars.....	\$14.75	
3,000 blanks in pads.....	14.22	
making 12 covers .....	3.60	
	<hr/>	32.57

By advertising:

John B. Clarke Co.:

notice to contractors for brown-tail moth proposals,	
3 in. 6 t. ....	9.00

Union Publishing Co.:

notice to contractors for brown-tail moth proposals,	
2 in. 6 t. ....	8.26

By payroll, commons .....	209.49
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By labor, Munson-Whittaker:

January 8, 1908, to February 25, 1908, inclusive, highways, school yards and commons, 5,953.5 hours @ 35c. per hr.....	\$2,083.73
To 2% discount (bills paid ahead of draft)	41.68

\$2,042.05

#### CONTRACT WORK.

By District No. 1.....	\$100.00
By District No. 2.....	65.00
By District No. 3.....	70.00
By District No. 4.....	75.00
By District No. 5.....	75.00
By District No. 6.....	80.00
By District No. 7.....	190.00
By District No. 8.....	185.00
By District No. 9.....	110.00

950.00

By labor, Munson-Whittaker Co.:

February 27-29, March 2-4, April 12 and 20-25, inclusive, finishing parks, commons and schoolhouse yards, 512 hours @ 35c. per hour .....	\$179.20
To 2% discount (bills paid ahead of draft)	3.58

175.62

265 hours @ 35c. per hour.....

92.75

By labor, Lawrence A. O'Connor:

inspector on contract work.....	\$38.00
carfare .....	2.60

40.60

By labor, Munson-Whittaker Co.:

March 7, 1908, to April 18, 1908 (private work), 4,530¼ hours @ 35c. per hour...	\$1,585.59
To 2% discount (bills paid ahead of draft)	31.73

\$1,553.86

To amount overpaid in previous bill..... 30.18

1,523.68

By labor, inspectors (private work), March 14, 1908, to April 25, 1908:

Albert T. Barr, 41 hours @ 35c. per hour..	\$14.35
Albert J. Dugre, 94½ hours @ 35c. per hour	33.08
Harry T. George, 344½ hours @ 35c. per hour .....	122.58
T. F. Haggerty, 117 hours @ 35c. per hour	40.95
Robert J. Hayes, 131 hours @ 35c. per hour	45.85
Charles Hazen, 120 hours @ 35c. per hour	42.00
J. Arthur Lathe, 197 hours @ 35c. per hour	68.95

Wm. A. McQuade, 101¼ hours @ 35c. per hour .....	\$35.44	
John J. McAllister, Jr., 45 hours @ 30c. per hour .....	13.50	
		\$416.70
		\$5,591.30
To appropriation for brown-tail and gypsy moth work .....	\$5,000.00	
To labor, county of Hillsborough:		
on trees at county jail.....	\$9.10	
on trees at county court house .....	2.10	
		11.20
To labor, Stark mills:		
on property of Stark mills.....	61.95	
To labor, Manchester water-works:		
on property on Mill road.....	27.75	
To labor, tax collector:		
on private property.....	647.09	
By balance unexpended .....		156.69
	\$5,747.99	\$5,747.99

## ITEMIZED OPERATIONS.

The work of removing the brown-tail moth nests was carried on through November and December, 1907, which work appears in the 1907 report. The work was continued up to the twenty-fifth of February, 1908, in the same manner followed during 1907.

Proposals were then advertised for and the contract was awarded to Munson-Whitaker Company of Boston, Mass., to remove all the brown-tail moth nests from trees in public highways throughout the city that had not already been removed to date.

The city was divided into districts (except that part already cleaned) as follows:

District No. 1 shall include the territory bounded by the Merrimack river, the Piscataquog river, the Manchester-Bedford town line and the Manchester-Goffstown town line.

District No. 2 shall be the territory bounded by the Piscataquog river, the Merrimack river and south of the following described lines: following the center line of West Bridge street from the Merrimack river to McGregor street, south on McGregor street to Amory street, west on Amory street to Coolidge avenue, northwest on Coolidge avenue to Kelley street, west on Kelley street to the Manchester & North Weare Railroad, westerly on Manchester & North Weare Railroad to the Piscataquog river, westerly by Piscataquog river to the Manchester-Goffstown town line.

District No. 3 shall be bounded by the Merrimack river and a line following Amoskeag street to Front street, Front street to Goffstown

road, Goffstown road to Manchester-Goffstown town line, the Manchester-Goffstown town line and the northerly boundary of District No. 2.

District No. 4 shall be bounded by the Merrimack river, District No. 3, Manchester-Goffstown town line and the Manchester and Hooksett town line.

District No. 5 shall be bounded by the Merrimack river, the Manchester-Hooksett town line, Mammoth road, the section already covered on the south and Stark park north line.

District No. 6 shall be bounded by Manchester-Hooksett town line, Manchester-Auburn town line, Candia road and Mammoth road.

District No. 7 shall be bounded by Candia road, Manchester-Auburn town line, Manchester-Londonderry town line and the Mammoth road.

District No. 8 shall be bounded by Mammoth road, Manchester-Londonderry town line, Manchester & Lawrence Railroad and the section on the north already covered.

District No. 9 shall be bounded by the Manchester & Lawrence Railroad, Manchester-Londonderry town line, Manchester-Litchfield town line, the Merrimack river and the section on the north already covered.

The contract prices were as follows:

District No. 1, one hundred dollars (\$100).

District No. 2, sixty-five dollars (\$65).

District No. 3, seventy dollars (\$70).

District No 4, seventy-five dollars (\$75).

District No. 5, seventy-five dollars (\$75).

District No. 6, eighty dollars (\$80).

District No. 7, one hundred and ninety dollars (\$190).

District No. 8, one hundred and eighty-five dollars (\$185).

District No. 9, one hundred and ten dollars (\$110).

The contract further required that the contractor furnish all labor for private work at a rate of thirty-five cents per hour. Under this contract a liability policy running to the city of Manchester by its board of street and park commissioners covering accidents to the amount of \$5,000 for any one person and not more than \$15,000 for any one accident, was furnished by the contractor. A bond was also furnished guaranteeing the completion of the contract work on or before the specified time and to the satisfaction of the board of street and park commissioners.

Nine inspectors were employed on private work from March 3 to April 18, 1908, at a total cost of \$416.70; each inspector had from two to four men under him furnished by the contractor, and to each inspector was given a territory. All trees on private property in these territories were cleaned of brown-tail moth nests.

A memorandum in triplicate was kept, giving the names of those employed, length of time employed, date, rate, and total cost of the job, also the street and number, location, owner's name and neces-



sary remarks. One memorandum was left on the premises, provided they were occupied by the owner, or sent to the owner in case the property was rented, the other two copies were turned in to the office of the board, one of which was delivered to the board of assessors.

Before the first of November, 1908, notices were sent to the owner of every piece of property in the city of Manchester, N. H. These notices were sent through the mail and the addresses of the owners were obtained from the board of assessors and the tax collector, and it is presumed that every property owner was reached.

Many gypsy moth and elm leaf beetle infestations were found; the appropriation for brown-tail and gypsy moth does not provide for the extermination of the elm leaf beetle. Col. Thomas H. Dearborn, state agent for suppressing the brown-tail and gypsy moths, together with the assistance of the United States government, has undertaken the work of destroying the gypsy moth at the expense of the state of New Hampshire.

### Board of Street and Park Commissioners in account with the Appropriation for Care of Commons.

#### By stable rent:

Mary Dwyer .....	\$33.00
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#### By water, board of water commissioners:

Battery building .....	\$22.50	
Merrimack common (soldiers' monument)	300.00	
Merrimack common (public urinal).....	100.00	
Park common .....	100.00	
Concord common .....	100.00	
Tremont common .....	100.00	
		722.50

#### By gas, People's Gas-Light Company:

Battery building .....	12.87
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#### By electric lights, Manchester Traction, Light & Power Company:

Merrimack common .....	36.00
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#### By supplies:

John B. Varick Co. (lawn seed, rakes, lawn mower, etc.) .....	\$43.86	
Pike & Heald Co. (nipples, bushing, etc.)	.90	
Parnell Bros. (5 empty pork barrels).....	2.50	
Chas. A. Hoitt Co. (20 yds. burlap).....	6.00	
Geo. W. Dodge Shoe Co. (4 pairs rubber boots) .....	12.24	
The S. P. Dodge Co. (14 spokes).....	4.96	
Sessions Foundry Co. (24 park seat frames) .....	8.84	
		79.24



By lumber and labor:

The J. H. Mendell Co. ....	\$23.64
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By repairs:

E. M. Bryant & Co., repairing switch....	\$0.40
The S. P. Dodge Co., repair of wagon....	6.00
Powell & Clarkson, filing saw.....	.40
J. A. V. Smith Co., repairs of horse lawn mower .....	21.00
Robie Consolidated Concrete Co., sidewalk repairs, Merrimack common .....	227.04

354.84

By flower beds, Fred J. Bixby:

Concord common .....	\$21.24
Hanover common, 3 beds .....	37.30
Merrimack common, 3 beds .....	78.57
Park common, 2 beds .....	24.46
Tremont common, 2 beds .....	48.54
West Side park .....	8.61
Tulips and daffodils .....	16.80

235.52

By payroll .....	2,721.39
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\$4,219.00

To appropriation for care of commons.....	\$4,500.00
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To rent of field glasses at Weston Observa- tory for year 1908 .....	10.50
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By balance unexpended .....	291.50
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\$4,510.50      \$4,510.50

The appropriation of \$4,500.00 allows for little more than maintenance and does not provide for permanent improvements to any extent, as may be shown in the financial statement above. Following is a brief statement of the work done under maintenance:

Repaired, painted, set up, and took down all settees; cleaned, painted, covered, and uncovered all fountains; cleaned and repaired cesspools twice during season; spaded and manured flower beds for planting, and planted in the various commons as follows: 1,324 flower plants in Merrimack; 722 flower plants in Tremont; 617 flower plants in Hanover; 396 flower plants in Concord; 448 flower plants in Park; 130 flower plants in West Side; and planted one bed of roses in Merrimack; kept flowers and shrubs well cleaned, trimmed, and watered; set out 2,300 tulip bulbs and covered with boughs; graded and sodded around walks; swept walks every week, and raked and destroyed rubbish every day; put up and took down wire fence in Merrimack common; cut lawn twelve times during season; trimmed trees where necessary, and cut down and removed eighteen dead and dangerous trees; drew 310 loads of loam from Derryfield park and graded Tremont

common; set out barrels over cesspools and flooded for ice, keeping ice scraped and free from snow; plowed and shoveled snow from walks; cut and removed skating ice in spring; erected and took down band stand ten times; cut and drew bedding hay from West Side common; cut lawn at jail six times (charged to Hillsborough county and credit for same will appear in 1909 report).

### Board of Street and Park Commissioners in account with the Appropriation for Stark Park.

By supplies:

John B. Varick Co.....	\$13.52	
Manchester Hardware Co.....	7.50	
Pike & Heald Co.....	.75	
		<hr/>
		\$21.77

By water:

Board of water commissioners .....	12.00
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By flowers:

Fred J. Bixby .....	71.57
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By payroll .....	806.12
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\$911.46

To appropriation for Stark park.....	\$1,000.00	
By balance unexpended .....		88.54

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\$1,000.00      \$1,000.00

The appropriation of \$1,000.00 allows for maintenance only and does not provide for permanent improvements. Following is a brief statement of the work done under maintenance: cleaned all gutters, cesspools, and roads, and repaired where necessary; painted cannon and balls; manured grounds and removed same in the spring; drew 100 loads of manure; spaded and manured flower beds and planted 968 flower plants; cleaned and trimmed shrubs and flowers and kept them well watered; planted two trees and several other evergreen bushes; painted roof of summer house; graded and top dressed walk with stone dust; cut brush and dead trees, removing same, together with all rubbish; removed and destroyed brown-tail moth nests; cut and stored two tons of good hay and five tons of bedding hay; repaired, painted, erected, and took down two chair swings; replanked one foot bridge.

**Board of Street and Park Commissioners in account  
with the Appropriation for Derryfield Park.**

By water:		
Board of water commissioners .....		\$25.50
By supplies:		
John B. Varick Co.....	\$18.38	
Head & Dowst Co.....	1.32	
Pike & Heald Co.....	3.96	
		<hr/>
		23.66
By labor:		
The West Side Lumber Company (sawing pine logs) ..		18.03
By flowers:		
Fred J. Bixby .....		31.38
By insurance:		
William G. Berry .....	\$5.00	
John A. Sheehan .....	6.00	
		<hr/>
		11.00
By payroll .....		875.55
		<hr/>
		\$985.12
To appropriation for Derryfield park.....	\$1,000.00	
By balance unexpended .....		14.88
		<hr/>
	\$1,000.00	\$1,000.00

The appropriation of \$1,000.00 allows for maintenance only and does not provide for permanent improvements. Following is a brief statement of the work done under maintenance: cleaned and repaired all gutters, ditches, and cesspools; relaid one culvert; repaired and cleaned all roads and the path to the observatory; hoed bicycle track; repaired plank seats and replanked three bridges; repaired, painted, erected, and took down six lawn swings; opened observatory at eight o'clock every Sunday and closed it at seven o'clock; made frames and screened all windows and set twenty-eight lights of glass; picked and destroyed brown-tail moth nests; painted cannon and balls; spaded and manured flower beds and planted four hundred eighty-eight flower plants and five hundred old tulip bulbs; kept beds trimmed and watered; manured or top dressed a large area and removed same in spring; trimmed apple trees, cut brush, destroyed all rubbish, cut and removed dead trees; cut two hundred eighty-eight feet oak logs, five hundred forty-four feet pine logs, and eighteen cords of wood (which was drawn to stone crusher); repaired back stop on baseball diamond; remodeled storehouse and fitted up three stalls and laid water pipe to same; cut and stored twenty-six tons of hay, and cut grass on lawn twelve times; top dressed eight thousand nine hundred sixty square feet of walk with crushed stone and stone dust.

**Board of Street and Park Commissioners in account  
with the Appropriation for Lafayette Park.**

By land tile, Pike & Heald Co.....		\$10.20
By supplies:		
John B. Varick Co.....	\$8.90	
Pike & Heald Co. (pipe, etc.).....	1.20	
		10.10
By labor, payroll Division No. 10.....		1,908.00
		<hr/>
		\$1,928.30
To appropriation for Lafayette park.....	\$2,000.00	
By balance unexpended .....		71.70
		<hr/>
	\$2,000.00	\$2,000.00

**Board of Street and Park Commissioners in account  
with the Appropriation for Miscellaneous Playgrounds.**

By water, board of water commissioners:		
Prout park .....	\$16.38	
Barry playground .....	6.00	
		<hr/>
		\$22.38
By supplies:		
John B. Varick Co.....	\$3.65	
The J. H. Mendell Co. (lumber).....	5.26	
Manchester Traction, Light & Power Co. (poles for handball court in Barry play- ground) .....	27.00	
		<hr/>
		35.91
By supplies and labor, Pike & Heald Co.:		
Prout park .....		95.33
By insurance, John A. Sheehan:		
Prout park buildings .....		15.75
By rent of land in East Manchester to be used as ball ground:		
Dickey and Woodman .....		50.00
By payroll .....		57.47
		<hr/>
		\$276.84
To appropriation for miscellaneous play- grounds .....	\$200.00	
Dana A. Watson (rent of Prout house)....	55.00	
Overdraft .....	21.84	
		<hr/>
	\$276.84	\$276.84

## ITEMIZED OPERATIONS.

A tract of land in East Manchester, on Hayward street, west of Porter, known as the Dickey and Woodman land, was rented for the season, to be used as a ball ground.

The Barry playground was rolled, water fixtures installed, and a handball court erected.

No appropriation was made for the expense of maintaining Prout park. The insurance, water, and necessary repairs of the above were charged to miscellaneous playgrounds.

## Barry playground:

Labor of men .....	\$11.74	
Labor of teams .....	3.50	
		\$15.24

## Putting in drinking water facilities:

Labor of men .....		7.75
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## Erecting handball court:

9 poles, 30 ft. long.....	\$27.00	
Labor of men.....	\$22.72	
Labor of teams.....	16.50	
	39.22	
		\$66.22

No charge for plank or hardware.

### Board of Street and Park Commissioners in account with the Appropriation for City Yard.

By land for city yard (said tract of land is bounded by Lincoln, Hayward and Maple streets and the railroad right of way on the southerly side of Valley street):

Amoskeag Manufacturing Company, on account.... \$5,000.00

## By construction of sidetrack, B. &amp; M. R. R.:

services of engineer corps.....	\$7.79
labor of sectionmen.....	110.30
12 1742/2240 tons relay rail @ \$25.....	319.44
1,396 lbs. relay joint stock @ 2½c.....	34.90
2 relay guard rails @ \$4.75.....	9.50
48 lbs. rail braces @ 3c.....	1.44
1 rail frog .....	22.00
1 switch .....	38.00
1 switch stand .....	18.00
148 No. 1 oak ties @ 70c.....	103.60
200 No. 2 cedar ties @ 40c.....	80.00
2,500 ft. switch ties @ \$24 per M.....	60.00
1,000 lbs. track spikes @ 3c.....	30.00
170 lbs. track bolts @ 3¼c.....	5.53
192 nutlocks @ 1c.....	1.92
15 lbs. crossing spikes @ 3c.....	.45
371 ft. crossing plank (hemlock) @ \$20....	7.42

850.29

## By supplies:

John B. Varick Co., lead, nails, cil, iron, etc.....	\$213.32
H. J. Lawson, 2,000 ft. galvanized iron fence rail, No. 24 gauge crimped 6" stock @ 3¼c.....	65.00
B. F. Greer, 250 posts 12 ft. long @ 25c.....	62.50
Manchester Traction, Light & Power Co., 1 40-ft. pole used for gate at new city yard.....	4.50

## The J. H. Mendell Company:

4,920 ft. 3" x 5" x 16' spruce, planed 4 sides, @ \$25 per M.....	\$123.00
992 ft. 4" x 6" x 16' spruce, planed 4 sides, @ \$22 per M.....	21.82

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\$144.82

To 1% discount for cash....	\$1.45
freight .....	27.00

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28.45

20,023 ft. matched spruce sheathing, 16 ft. long, planed both sides @ \$23.50....	\$470.54
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To 1% discount for cash....	\$4.71
freight .....	27.75

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32.46

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116.37

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438.08

By supplies and labor, The J. H. Mendell Co.....	39.86
By labor, fence around city yard, Gedeon Lariviere, 1,930 ft. @ 4c.....	77.20
By freight on lumber, B. & M. R. R.....	54.75
By payroll .....	1,119.30

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\$8,041.17

To appropriation for city yard.....	\$6,000.00
Overdraft .....	2,041.17

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\$8,041.17

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\$8,041.17

## ITEMIZED OPERATIONS.

The Boston & Maine Railroad built a sidetrack from their Valley street branch into the city yard, entering from Lincoln street (paid for by city). The Manchester Street Railway built a spur track running into the city yard entering at Maple street and running alongside the Boston & Maine track. The intention of the board is to unload trap rock from Boston & Maine cars to street railway cars and deliver the broken stone by street railway cars to the nearest point on the job. All sewer pipe, brick, lumber, stone, posts, curbing, paving and coal is unloaded from cars without the use of teams. Two thousand feet of fence and three gates were built (fence eight feet high).



The scrub growth of pine, etc., on the lot was cut and burned. The street railway sidetrack was built at their expense, with the agreement that until the city should pay for the same the street railway might use the track for transferring new cars, ties, etc., from steam railway cars to their own, doing the same at no inconvenience to the city.

Building fence, making and hanging gates, grading for sidetrack, work on sidetrack, unloading lumber, grading around fence, cleaning yard, painting gates, and watching (976-991):

Labor of men .....	\$806.90	
Labor of teams .....	17.25	
	<hr/>	\$824.15

## RECAPIT

	Appro- priation.	Credits.	Total.	Payroll.
Street and park commission.....	\$ 3,300.00		\$ 3,300.00	\$ 9,417.60
Snow and ice.....	9,000.00		9,000.00	6,029.51
Repairs of highways.....	49,200.00	\$1,243.24	50,443.24	38,213.49
New highways.....	4,000.00		4,000.00	545.89
Watering streets.....	7,000.00	52.50	7,052.50	6,773.49
Paving streets.....	6,000.00	12,939.09	18,939.09	4,569.59
Macadamizing streets.....	6,000.00		6,000.00	2,668.38
Grading for concrete.....	3,500.00		3,500.00	2,457.27
Scavenger service.....	25,000.00		25,000.00	23,473.30
Street sweeping.....	6,000.00		6,000.00	7,646.57
Bridges.....	8,000.00	470.36	8,470.36	3,077.12
City teams.....	10,000.00	172.09	10,172.09	7,026.38
Repairs of sewers.....	8,000.00	69.77	8,069.77	4,348.56
New sewers.....	25,000.00	1,378.58	26,378.58	10,558.36
Brown-tail and gypsy moth.....	5,000.00	747.99	5,747.99	209.49
Care of commons.....	4,500.00	10.50	4,510.50	2,721.39
Stark park.....	1,000.00		1,000.00	806.12
Derryfield park.....	1,000.00		1,000.00	875.55
Lafayette park.....	2,000.00		2,000.00	1,908.00
Miscellaneous playgrounds.....	200.00	55.00	255.00	57.47
City yard.....	6,000.00		6,000.00	1,119.30
	\$189,700.00	\$17,139.12	\$206,839.12	\$134,502.83

ULATION.

New machines.	Repairs.	Gravel Sand and Clay.	Paving blocks.	Broken stone.	Pipe.	Brick.	Cement.	Castings
\$ 30.00								
200.00	\$ 401.14	\$29 10		\$6,651.54				
	15.55							
3,500.00	101.28		\$13,632 35				\$902.63	
214.87	5.25							
385.04	195.76							
	5,865.13						1,366.18	
1,020.87	417 77					\$709.18		\$766.63
	5.00				\$3,648.21	88.01	280.66	39.06
	27.80							
					10.20			
\$5,350.78	\$7,034.68	\$ 29.10	\$13,632 35	\$6,651 54	\$3,638.41	\$797.14	\$2,549.47	\$805 69

## RECAPITULATION. (2)

	Lumber.	Curbing.	Fuel.	Lights.	Water.	Ice.	Feed.	Concrete.	Paint.	Supplies.	Freight.	Veterin'ry and medicine.
Street and park commission.												
Snow and ice.	\$ 15.57					\$6.00				\$104.52	\$ 2.21	
Repairs of highways.			\$515.45	\$76.00				\$467.92		83.53	2.28	
New highways.										1,111.01	1,069.65	
Watering streets.						104.46			\$132.64	1,057.14	50	
Paving streets.	28.77	\$716.83	16.98	13.00				730.66		21.72	59.72	
Macadamizing streets.			371.78	5.00	\$ 17.50					322.00	.82	
Grading for concrete.	1.89	457.64		10.00				1.22		8.35	.25	
Scavenger service.				5.00						83.53	11.51	
Street sweeping.										118.46	29.13	
Bridges.	2,485.85			15.00					558.85	344.70	56.28	
City teams.	180.93		365.69	198.50	80.00		\$ 3,429.50			1,122.64		\$127.15
Repairs of sewers.		99.37	11.00							110.79	104.04	
New sewers.	1,203.15		93.94	55.60						835.46	186.34	
Brown-tail and gypsy moth.										90.58		
Care of commons.	23.64			48.87	732.50			327.04		79.24		
Stark park.					12.00					21.57		
Derryfield park.					25.50					23.86		
Lafayette park.										10.10		
Miscellaneous playgrounds.	32.26									3.65		
City yard.	621.45				22.38					278.32	54.75	
	\$4,593.52	\$1,273.84	\$1,374.84	\$428.77	\$879.88	\$176.46	\$3,429.50	\$1,526.84	\$691.49	\$5,780.88	\$1,577.48	\$127.15

## RECAPITULATION. (3)

	Printing.	Inspection of B. T. Moths.	B. T. moth contract.	Flowers.	Garbage contract.	Valley cemetery wall.	Paving contract.	Rent of city farm.	Land and sidetrack.	Horses and mul's.
Street and park commission.....	\$227.29	.....	.....	.....	.....	.....	.....	.....	.....	.....
Snow and ice.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Repairs of highways.....	.....	.....	.....	.....	.....	\$343.88	.....	.....	.....	.....
New highways.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Watering streets.....	.....	.....	.....	.....	.....	.....	\$1,740.80	.....	.....	.....
Paving streets.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macadamizing streets.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grading for concrete.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scavenger service.....	.....	.....	.....	.....	\$1,922.64	.....	.....	.....	.....	.....
Street sweeping.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bridges.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City teams.....	1.80	.....	.....	.....	.....	.....	.....	\$855.00	.....	\$2,785.90
Repairs of sewers.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New sewers.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brown-tail and gypsy moth.....	49.83	\$457.30	\$4,784.10	.....	.....	.....	.....	.....	.....	.....
Care of common s.....	.....	.....	.....	\$235.52	.....	.....	.....	.....	.....	.....
Stark park.....	.....	.....	.....	71.57	.....	.....	.....	.....	.....	.....
Derryfield park.....	.....	.....	.....	31.38	.....	.....	.....	.....	.....	.....
Lafayette park.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous playgrounds.....	.....	.....	.....	.....	.....	.....	.....	.....	\$7,850.29	.....
City yard.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	\$278.02	\$457.30	\$4,784.10	\$338.47	\$1,922.64	\$343.88	\$1,740.80	\$855.00	\$5,850.29	\$2,785.90

## RECAPITULATION. (4)

	Miscellaneous.	Old bills.	Total.	Overdraft.	Balance.
Street and park commission.....	\$304.34	.....	\$10,061.77	\$6,761.77	.....
Snow and ice.....	.....	.....	6,110.89	.....	\$2,853.11
Repairs of highways.....	44.09	.....	49,123.27	.....	1,319.97
New highways.....	.....	.....	545.89	.....	3,454.01
Watering streets.....	.....	.....	8,143.78	.....	.....
Paving streets.....	9.10	.....	22,444.15	1,091.38	.....
Macadamizing streets.....	11.48	.....	6,998.24	3,505.06	.....
Grading for concrete.....	.....	.....	2,936.62	998.24	.....
Scavenger service.....	9.00	.....	25,725.10	.....	563.38
Street sweeping.....	.....	.....	8,374.96	725.10	.....
Bridges.....	10.66	.....	13,912.73	2,374.96	.....
City teams.....	207.40	\$132.96	17,819.83	5,442.37	.....
Repairs of sewers.....	20.80	.....	6,173.32	7,647.74	.....
New sewers.....	3.00	.....	16,891.20	.....	1,894.45
Brown-tail and gypsy moth.....	.....	.....	5,391.30	.....	9,387.38
Care of commons.....	33.00	.....	4,219.00	.....	156.69
Stark park.....	.....	.....	911.46	.....	291.50
Derryfield park.....	29.03	.....	985.12	.....	88.54
Lafayette park.....	.....	.....	1,928.30	.....	14.88
Miscellaneous playgrounds.....	161.08	.....	276.84	.....	71.70
City yard.....	117.06	.....	8,041.17	21.84	.....
	\$960.04	\$132.96	\$217,316.94	\$30,609.53	\$20,131.71



# REPORT OF THE ENGINEER'S DEPARTMENT.

MANCHESTER, N. H., December 31, 1908.

*To the Honorable Mayor and City Councils:*

GENTLEMEN:—The thirtieth annual report of the engineer's department is herewith submitted, showing the expenditures and operations for the year ending December 31, 1908.

## ORGANIZATION.

SAMUEL J. LORD, *Chief Engineer of the City.*

GEORGE W. WALES, *First Assistant Engineer.*

HARRIE M. YOUNG, *Chief Clerk.*

Assistants: Harry J. Briggs (to March 21, assessors' assistant after March 21); Alfred T. Dodge, instrument man; Henry A. Worthen, instrument man; Lawrence A. O'Connor, rodman; Oliver W. Cushman, rodman (from April 27); Joseph A. Dusseault, rodman (July 6 to November 11); John J. McAllister, Jr., assistant clerk (stenographer and typewriter).

## FINANCIAL.

### BOSTON & MAINE RAILROAD.

1907.

Dec. 20.	To freight on 9 cases castings from Concord	\$0.30
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### JOHN B. VARICK COMPANY.

1907.

Dec. 28.	To 1 pr. 6½ Bernard cut pliers...	\$1.10
31.	4 9 x ½ lag screws @ 3c.....	.12
	4 ½" Diamond sleeves @ 8c...	.32
	1 ¾" brick drill .....	.50

1908.

Jan. 1.	5½ lbs. ¼" cable chain @ 7c.	.39
4.	1 qt. orange shellac .....	.75
	1 qt. denatured alcohol .....	.15
	1 qt. can .....	.15
6.	1 qt. can asphaltum .....	.40

\$3.88

May 28.	To 1 6 ex., 5 x 7, developed.....	\$0.35
	6 prints .....	.60

\$0.95

Aug. 6.	To 8 lbs. ⅝" Manila rope.....	\$0.96
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Sept. 26.	To 2 rolls film, 7 x 5, 6 ex., @ 80c.	\$1.60	
	1 doz. 7272-D tapes, 50 foot, @		
	\$3.00 each, graduated in 10ths	36.00	
			\$37.60
Dec. 30.	To 1 doz. plumb bobs.....	\$10.50	
	Cr. by bobs paid for in Dec., 1907	7.50	
			\$3.00
Mar. 25.	To $\frac{1}{3}$ doz. No. 54 special rules @		
	\$3.00 .....	1.00	
Sept. 19.	1 gross marking crayon .....	3.25	
Oct. 23.	50 ft. $\frac{3}{8}$ " Manila rope, 3 lbs.		
	@ 14c. ....	.42	
Dec. 10.	3 No. 2 M. T. drills @ 9c.....	.27	
24.	1 reckoning machine .....	350.00	
	1 rain rate recorder .....	70.25	
			\$428.22

## IDEAL STAMP COMPANY.

1908.

Jan. 10.	To 1 stamp .....	\$0.75	
	1 red pad .....	.50	
			\$1.25

## BERTRAND L. MAKEPEACE, BOSTON, MASS.

1908.

Jan. 14.	To 2 20-yd. rolls 42" Crane's bond tracing paper @ \$1.50 .....		\$3.00
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## MANCHESTER HARDWARE COMPANY.

1908.

Jan. 20.	To 16 lbs. nails @ $4\frac{1}{2}$ c.....	\$0.72	
April 25.	5 lbs. 8d wire nails @ 4c.....	.20	
			\$0.92
July 6.	To 5 lbs. wire nails, 12d, @ 4c.....		\$0.20
Dec. 8.	To 1 lock .....		\$0.20

## NEW ENGLAND TELEPHONE &amp; TELEGRAPH COMPANY.

1908.

Jan. 18.	To exchange service, including rental of telephone for one month ending December 31, 1907 .....		\$2.08
Feb. 19.	To exchange service, including rental of telephone for one month ending January 31, 1908 .....		\$2.09
Mar. 19.	To exchange service, including rental of telephone for one month ending February 29, 1908 .....		\$2.09

## ENGINEER'S DEPARTMENT.

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April 18.	To exchange service, including rental of telephone for one month ending March 31, 1908 .....	\$2.09
May 18.	To exchange service, including rental of telephone for one month ending April 30, 1908 .....	\$2.09
June 27.	To exchange service, including rental of telephone for one month ending May 31, 1908 .....	\$2.03
July 25.	To exchange service, including rental of telephone for one month ending June 30, 1908 .....	\$2.08
Aug. 22.	To exchange service, including rental of telephone for one month ending July 31, 1908 .....	\$2.08
Sept. 26.	To exchange service, including rental of telephone for one month ending August 31, 1908 .....	\$2.08
Sept. 26.	To tolls:	
	Aug. 24, Suncook 24-2 .....	\$0.22
	Aug. 27, Suncook Bailey ....	.16
		<hr/>
		\$0.38
Oct. 24.	To exchange service, including rental of telephone for one month ending September 30, 1908 .....	\$2.08
Oct. 24.	To tolls:	
	Sept. 11, Suncook 24-2 .....	\$0.10
	Sept. 19, Suncook 24-2 .....	.10
		<hr/>
		\$0.20
Nov. 21.	To exchange service, including rental of telephone for one month ending October 31, 1908 .....	\$2.08
Dec. 26.	To exchange service, including rental of telephone for one month ending November 30, 1908 .....	\$2.08
Dec. 26.	To tolls:	
	Laconia 22-12 called by Winchester Stone Co. ....	\$0.90

## REMINGTON TYPEWRITER COMPANY.

1908.

Feb. 5.	To 1 doz. Remtico Ribbon coupon book No. 1735 .....	\$7.00
Dec. 26.	To 1 Remington typewriter No. 10 .....	\$100.00
	less 10% discount .....	10.00
		<hr/>
		\$90.00

## ANNUAL OFFICIAL REPORTS.

## THE E. A. STRATTON COMPANY.

1908.

Feb. 22.	To 4,000 cost cards .....	\$20.00
Sept. 9.	2 bookcases D-298 @ \$3.50.....	\$7.00

## THE SCARBOROUGH COMPANY.

1908.

Feb. 22.	To 1 roll map .....	\$0.98
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## JOHNSON'S BOOKSTORE, SPRINGFIELD, MASS.

1908.

Feb. 24.	To 1 field and office table.....	\$2.00
	postage .....	.06
		<hr/>
		\$2.06

## THE WILLIAM G. STIEREN COMPANY, PITTSBURG, PA.

1908.

Feb. 24.	To 2 copies Stieren's table books	
	@ 75c. ....	\$1.50
	postage .....	.06
		<hr/>
		\$1.56

## E. G. SOLTMAN &amp; COMPANY, NEW YORK CITY.

1908.

Feb. 25.	To 1 roll 43" Monarch tracing	
	paper .....	\$3.00
	expressage .....	.35
		<hr/>
		\$3.35
Oct. 6.	To 1 wheel for Jupiter sharpener	\$2.00
	6 rules .....	2.75
	1 gross Kohinoor pencils....	10.00
	1 roll 36" blue print paper....	3.95
	100 sheets Victoria drawing	
	paper .....	3.00
	50 sheets Victoria drawing	
	paper .....	2.50
	1 dozen bottles ink.....	2.25
	expressage .....	1.25
		<hr/>
		\$28.70

## TEMPLE &amp; FARRINGTON COMPANY.

1908.

Mar. 7.	To binding 1 time book for 1907	\$0.85
	binding 1 record of committee	
	on streets .....	.85
	binding 1 record committee	
	on sewers and drains.....	.85
		<hr/>
		\$2.55

## C. L. BERGER &amp; SONS, BOSTON, MASS.

Mar. 10.	To repairing, cleaning and adjusting one Berger No. 865 engineers' transit instrument, 21½ hours labor @ 70c.....	\$15.05	
	1 new holder for reading glass	3.00	
	1 new tripod complete.....	16.00	
	1 new packing box complete..	.50	
			<hr/>
			\$34.55

## CONCORD FOUNDRY &amp; MACHINE COMPANY, CONCORD, N. H.

1908.			
Mar. 11.	To 216 sign hangers drilled and painted @ 18c.		\$38.88

## BOARD OF ASSESSORS.

1908.			
Mar. 14.	To moneys transferred from engineer's department to assessors' department for assessors' lot plans .....		\$800.00

## RANNO SADDLERY COMPANY.

1908.			
April 19.	To 1 bit for horse .....		\$0.50

## OLIVER COMIRE.

1908.			
May 2.	To repairing bridle and girt.....	\$0.75	
	1 bridle front .....	.50	
			<hr/>
			\$1.25

## THE JOHN B. CLARKE COMPANY.

1908.			
June 6.	To printing engineer's department annual report, 66 pages @ 60c. per page.....		\$39.60

## LEDDER &amp; PROBST, BOSTON, MASS.

1908.			
July 25.	To 2 100-ft. Chesterman steel tapes, divided tenths and hundredths, @ \$8.50.....	\$17.00	
	one set of 102 aluminum nickel R. R. curves, special price..	18.00	
			<hr/>
			\$35.00

## FARRELL BROTHERS.

1908.			
July 22.	To 10 ft. No. 18 special cord, o. c.	\$0.40	
	12 ft. No. 18 special cord, n. c.	.50	
	2 Hubbell attach plugs.....	.50	
	1 socket cushion for n. c. cords	.10	
	1 key socket .....	.23	
	labor .....	.30	
			<hr/>
			\$2.03

Sept. 10.	To 1 P. & S. wall socket.....	\$0.35	
	labor, 1 man 1 hour .....	.45	
Oct. 14.	2 hub side wall plugs.....	.90	
	labor, 1 man 2 hours.....	.90	
			<hr/> \$2.60

## GEORGE W. DODGE SHOE COMPANY.

1908.			
July 25.	To 2 pairs men's Storm King rubber boots @ \$3.50.....	\$7.00	
	1 pair men's Storm King rubber boots @ \$3.75.....	3.75	
			<hr/> \$10.75

## POWELL &amp; CLARKSON.

1908.			
Aug. 19.	To 1 case for aluminum curves.....		\$3.00

## THE HEAD &amp; DOWST COMPANY.

1908.			
Sept. 14.	To 300 3-foot grade stakes @ \$3.25.....		\$9.75
Oct. 12.	300 3-foot grade stakes @ \$3.25.....		\$9.75

## BAY STATE STAMP WORKS, BOSTON, MASS.

1908.			
Sept. 17.	To 2 black wood pads, No. 2, @ 60c. ....	\$1.20	
	1 red wood pad, No. 2, @ 60c. ....	.60	
			<hr/> \$1.80

## AMERICAN TECHNICAL SOCIETY, CHICAGO, ILL.

1908.			
Sept. 26.	To 1 set Cyclopaedia of Civil Engineering, 8 vols. ....		\$21.60

## FRANK A. GAY.

1908.			
Oct. 12.	To labor establishing street line of rangeway in land of Daniel Annis, Holt avenue...		\$3.50

## MRS. GEORGE H. ALLEN.

1908.			
Oct. 24.	To 1½ doz. Kohinoor drawing pencils at 83⅓c.		\$1.25

## CHARLES F. MCCARTHY.

1908.			
Nov. 21.	To painting and lettering 300 street signs at 30c. ....		\$90.00

## AMERICAN LIBRARY COMPANY, BOSTON, MASS.

1908.			
Dec. 10.	To 1 March's Thesaurus Dictionary.....		\$15.00



## ENGINEER'S DEPARTMENT.

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## L. B. BODWELL &amp; COMPANY.

1908.

Dec. 15.	To 70 lbs. ice daily, June 1 to Oct. 1, 1908...	\$7.00
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## HARRY L. GOULD.

1908.

Dec. 26.	To weekly report on hydrant bench marks for year 1908 .....	\$12.00
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## JOHN J. MCALLISTER, JR.

1908.

Jan. 25.	To cash paid H. M. Young for ex- press .....	\$1.84	
	1 notebook .....	.05	
	cash paid H. A. Worthen for express .....	.20	
			\$2.09
Feb. 3.	cash paid G. W. Wales for 1 lock .....	\$0.15	
	cash paid G. W. Wales for soap 6. cash paid H. A. Worthen for carfare .....	.25 .10	
	cash paid J. J. McAllister for express .....	.55	
10.	cash paid G. W. Wales for car- fare .....	.30	
			\$1.35
Mar. 3.	cash paid H. A. Worthen for carfare .....	\$0.10	
	cash paid A. T. Dodge for car- fare .....	.10	
12.	cash paid H. M. Young for ex- press .....	.50	
14.	cash paid H. A. Worthen for carfare .....	.10	
17.	cash paid H. A. Worthen for carfare .....	.10	
			\$0.30
May 6.	3 boxes stickers .....	\$0.30	
	cash paid H. M. Young for car- fares, May 4, 5 and 6.....	.80	
9.	cash paid H. M. Young for car- fare .....	.10	
21.	carfare .....	.10	
22.	carfare .....	.10	
			\$1.40
May 25.	carfare .....	\$0.20	

June 3.	To cash paid L. A. O'Connor for carfare .....	\$0.10	
	cash paid H. M. Young for carfare .....	.05	
4.	cash paid H. M. Young for carfare .....	.20	
5.	cash paid H. M. Young for carfare .....	.40	
8.	carfare .....	.10	
17.	carfare .....	.15	
18.	carfare .....	.20	
19.	carfare .....	.20	
20.	carfare .....	.15	
22.	carfare .....	.15	
			<hr/>
			\$1.90
June 30.	cash paid H. M. Young for carfare .....	\$0.30	
July 1.	cash paid H. M. Young for carfare .....	.20	
7.	cash paid H. M. Young for white cloth .....	.08	
13.	cash paid H. M. Young for carfare .....	.10	
15.	cash paid H. M. Young for carfare .....	.20	
17.	cash paid H. M. Young for erasers .....	.10	
20.	cash paid H. M. Young for erasers .....	.20	
	cash paid J. J. McAllister, Jr., for carfare .....	.10	
22.	cash paid H. M. Young for carfare .....	.20	
24.	cash paid G. W. Wales for carfare .....	.20	
			<hr/>
			\$1.78
Aug. 22.	cash paid H. M. Young for carfare .....	\$0.20	
	cash paid H. M. Young for carfare .....	.20	
	cash paid H. M. Young for carfare .....	.20	
	cash paid H. M. Young for carfare .....	.20	
	cash paid O. W. Cushman for carfare .....	.10	

Aug. 22.	To cash paid O. W. Cushman for carfare .....	\$0.10	
	cash paid J. A. Dusseault for graphite .....	.10	
			\$1.10
Aug. 25.	cash paid H. M. Young for carfare .....	\$0.10	
Sept. 1.	cash paid O. W. Cushman for carfare .....	.05	
3.	cash paid A. T. Dodge for carfare .....	.40	
4.	cash paid O. W. Cushman for carfare .....	.10	
5.	cash paid A. T. Dodge for carfare .....	.10	
8.	cash paid A. T. Dodge for carfare .....	.20	
21.	cash paid H. M. Young for carfare .....	.05	
			\$1.00
Sept. 25.	cash paid O. W. Cushman for carfare .....	\$0.10	
30.	cash paid G. W. Wales, 1 ball twine .....	.25	
	cash paid L. A. O'Connor for carfare .....	.10	
Oct. 5.	cash paid H. M. Young for express .....	.35	
13.	cash paid J. J. McAllister, Jr., for carfare .....	.20	
14.	cash paid J. J. McAllister, Jr., for carfare .....	.10	
15.	cash paid J. J. McAllister, Jr., for carfare .....	.20	
			\$1.30
Nov. 12.	cash paid A. T. Dodge for carfare .....	\$0.20	
Oct. 26.	cash paid A. T. Dodge for carfare .....	.30	
20.	cash paid H. M. Young for 1c. envelopes .....	2.26	
			\$2.76
Dec. 10.	cash paid G. W. Wales for carfare .....	\$0.10	
	cash paid G. W. Wales for two punches .....	.30	
17.	cash paid A. T. Dodge for carfare .....	.10	
			\$0.50

## GEORGE W. WALES.

1908.

Dec. 26.	To 318 days' service @ \$3.30 per day .....	\$1,049.40	
	282½ hours' extra service @ 44c. per hour .....	124.30	
		<hr/>	\$1,173.70

## HARRIE M. YOUNG.

Dec. 26.	To 317 days', 5 hours' service @ \$3.00 per day .....	\$953.00	
	50 hours' extra service @ 40c. per hour .....	20.00	
		<hr/>	\$973.00

## HARRY J. BRIGGS.

Mar. 21.	To 60 days' service @ \$2.75 per day .....	\$165.00	
	6 hours' extra service @ 36⅔c. per hour .....	2.19	
	12 days' service as assessors' office assistant @ \$2.75 per day .....	33.00	
		<hr/>	\$200.19

## ALFRED T. DODGE.

Dec. 26.	To 318 days' service @ \$2.50 per day .....	\$795.00	
	49½ hours' extra service @ 33⅓c. per hour .....	16.56	
		<hr/>	\$811.56

## HENRY A. WORTHEN.

Dec. 26.	To 313 days' service @ \$2.25 per day .....	\$704.25	
	30 hours' extra service @ 30c. per hour .....	9.00	
		<hr/>	\$713.25

## OLIVER W. CUSHMAN.

Dec. 26.	To 24 days' service @ \$1.75 per day .....	\$42.00	
	182 days', 3½ hours' service @ \$2.00 per day .....	364.93	
	5 hours' extra service @ 26⅔c. per hour .....	1.32	
		<hr/>	\$408.25

## LAWRENCE A. O'CONNOR.

Dec. 26.	To 289 days, 2½ hours' service @		
	\$1.50 per day .....	\$434.00	
	2 hours' extra service @ 20c.		
	per hour .....	.40	
			<hr/>
			\$434.40

## JOSEPH A. DUSSEAU.

Nov. 21.	To 111 days' service @ \$2.00 per		
	day .....	\$222.00	
	3½ hours' extra service @		
	26½c. per hour .....	.93	
			<hr/>
			\$222.93

## JOHN J. MCALLISTER, JR.

Dec. 26.	To 312 days' service @ \$2.25 per		
	day .....	\$702.00	
	112½ hours' extra service @		
	30c. per hour .....	33.75	
			<hr/>
			\$735.75

## GEORGE R. PRINCE.

Jan. 25.	To 2 days' service @ \$2.00 per day.....	\$4.00
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## SAMUEL J. LORD.

Dec. 26.	To 12 months' salary as chief engineer, ½		
	paid from appropriation for engineer's		
	department .....	\$1,099.92	
			<hr/>
	Total expense engineer's department for 1908....	\$8,600.00	

## SUMMARY.

Appropriation to the engineer's department		
for the year 1908 .....	\$8,600.00	
Expenses of the engineer's department for		
the year 1908 .....		\$8,600.00
	<hr/>	<hr/>
	\$8,600.00	\$8,600.00

## ORDERS.

Board of mayor and aldermen (meetings).....	7
Board of examiners of plumbers.....	5
Committee on streets .....	21
Committee on sewers and drains.....	4
Petitions for new highways.....	17
Petitions for highway grade.....	18

Petitions for new sewers.....	10
Table No. 31 (street signs) .....	10
Table No. 28 (highway bounds) .....	42
Table No. 29 (levels for profile) .....	101
Table No. 29 (plans and profiles) .....	107
Table No. 30 (levels for profiles, sewers) .....	10
Table No. 30 (preliminary plans, sewers) .....	10
Table No. 30 (miscellaneous orders, field) .....	175
Table No. 30 (miscellaneous orders, office).....	13
Table No. 33 (cemetery orders, office) .....	3
Table No. 33 (cemetery orders, field) .....	10
Table No. 34 (street and park commission orders).....	281
Table No. 32 (street numbers) .....	125
<hr/>	
Total .....	959

## FIELD WORK.

Levels for profile for establishing grades (length in feet)	267,530
for sewer profiles (length in feet).....	4,478
in Pine Grove cemetery (length in feet).....	3,718
Other levels (length in feet).....	37,724
<hr/>	
Total length of levels in feet.....	313,450
Cross-section levels, city yard, Valley street (area in sq ft.) .....	206,500
Cross-section levels, Lafayette park (area in sq. ft.)....	35,000
Cross-section levels, Varney school yard (area in sq. ft.)	24,700
<hr/>	
Total cross-section levels (area in sq. ft.).....	266,200
Surveys of streets and street lines (length in feet).....	49,970
in Pine Grove cemetery (length in feet).....	2,100
for street numbers (length in feet).....	4,885
miscellaneous (length in feet).....	7,700
<hr/>	
Total length of surveys in feet.....	64,655
Street lines marked on ground (length in feet).....	13,710
Lot and avenue lines, Pine Grove cemetery (length in feet) .....	6,720
Lines for gutters (lengths in feet).....	7,482
Lines for curbs (length in feet).....	21,320
Lines for sewers (length in feet).....	8,845
Lines for building streets (length in feet).....	40,058
Other lines (length in feet).....	6,203
<hr/>	
Total length of lines marked on ground.....	104,340



Grades set for sidewalks (length in feet).....	21,181
gutters (length in feet).....	7,482
curbs (length in feet).....	21,320
sewers (length in feet).....	8,845
building streets (length in feet).....	40,058
Pine Grove cemetery (length in feet)....	4,642
water pipe (length in feet).....	2,710
Lafayette park (length in feet).....	2,550
other purposes (length in feet).....	17,100
Total length in feet of grades set.....	120,628
Number of new lots staked out in Pine Grove cemetery	125
Number of old lots restaked in Pine Grove cemetery....	2
Total number of cemetery lots staked out.....	127
Highway bounds set.....	35
Highway bounds reset.....	7
	42

## BATTERS SET.

Brown avenue, culvert at Beech street.  
 Conant road, culvert.  
 Corning road, culvert.  
 Hallsville schoolhouse.  
 Putnam street, culvert.  
 South Elm street, culvert at brook.  
 Valley cemetery, wall.  
 Varney school, bank wall.

## SEWER PLANS AND PROFILES.

Amherst, Beacon to east of Hubbard.  
 Beech, Somerville to Shasta.  
 Bremer north back, Rimmon to Coolidge avenue west back.  
 Brook, Maple to Oak.  
 Canal, West Bridge to Pleasant.  
 Cartier east back, Amory to Amory south back.  
 Clough avenue, Spruce to Auburn.  
 Hall road, Nelson to north of Benton.  
 Hayward, Union to Beech.  
 Hubbard, Amherst to Concord.  
 Jones, Nelson to Benton.  
 Maple, Somerville to Shasta.  
 Pine, East Spruce to Lake avenue.  
 Pine, Silver to Plummer.  
 Reed east back, Amory to Kelley.  
 Shasta, Willow to Maple.  
 Wentworth, Schiller to West Hancock.  
 Total sewer plans and profiles, 17.

## NUMBERING PLANS.

Bridge, Mammoth road to Candia road.

Candia road, C. & P. R. R. to town line.

Grant, Bedel to Cabot.

Howe, Maple to Lincoln.

Kingston, Warner to Rockland avenue.

Lafayette, Kelley to Bremer.

Maynard avenue, Porter to Huse road.

Plymouth, Warner to Rockland avenue.

Sherman, Bedel to Boynton.

Total numbering plans, 9.

## MISCELLANEOUS PLANS.

Arah, Fairview, Bellisle, Lamphere, Bennett, Lewis, Rowell and Catherine streets, land of J. P. Reardon.

Belmont and Grove streets, estate of A. L. & F. G. Walker.

Brown avenue, northeast part of Baker farm.

Candia and Lake Shore roads, Proctor, Harrt, Zorona, Carron, Highland View, Martin, Ora, Garlact and Phinney avenues, "Manchester Terrace," land of J. W. Wilbur.

Cilley road, Manning, Shasta, Wilson, Hall, Belmont, Taylor and Cypress streets, "Belmont Park," land of D. S. Kimball.

Cumberland, Essex, Whipple, Putnam and Wayne streets, land of Gagne, Gagne and Valle.

Elm street, land of Charles H. Hutchinson.

Total miscellaneous plans, 7.

## WORKING PLANS.

Amherst, Ashland to Hall. Profile.

Amherst, Beacon to Highland. Profile.

Amherst, east of Salisbury to Mammoth road. Profile.

Amoskeag, Amoskeag bridge to Front. Profile.

Arlington, Maple to Nashua. Profile.

Ash, Pearl to Orange. Profile.

Baker brook, Calef road to Brown avenue. Profile.

Beech, Bridge to Pearl. Profile.

Beech, Valley to Hayward. Profile.

Bowman, at Varney school. Profile and sections of bank wall.

Bridge, Walnut to Beech. Profile.

Brooklyn avenue, Jewett westerly. Sewer profile.

Brown avenue, showing location of culvert.

Byron, Brown avenue to Josselyn. Profile.

Calef road, proposed, Elm to first angle south of Elm. Profile.

Canal, location of car tracks.

Canal, West Central to Granite. Profile.

Cartier east back, Sullivan to Schuyler. Profile.

Cedar, Chestnut to Pine. Profile.  
Central south back, Chestnut easterly. Plan of drainage.  
Central, West, B. & M. R. R. easterly. Profile.  
Chestnut, Merrimack to Central. Profile.  
Cilley road, Belmont to Hall. Profile.  
Clarke, West, Elm to River road. Profile.  
Concord, Elm to Vine. Profile.  
Concord, Weston to Highland. Profile.  
Dearborn, Summer to Taylor. Profile.  
Depot, Franklin to Canal. Profile.  
Douglas, Dover to West. Profile.  
Eddy road, Front southerly. Profile.  
Front, Amoskeag to Black brook. Two profiles.  
Front, Amoskeag northerly. Profile.  
Glenwood avenue, Revere avenue to Mystic avenue. Sewer profile.  
Glenwood avenue, Mystic avenue to Woodland avenue. Profile.  
Glenwood avenue, Woodland avenue to Lovering. Sewer profile.  
Goffstown road, Hanscom's to east of Omega. Profile.  
Green, Pine to Beech. Profile.  
Hall, Shasta to Holly avenue. Profile.  
Hampshire lane, Stark to south of Market. Profile.  
Hampshire lane, Market to Merrimack. Profile.  
Hanover, Maple to Lincoln. Profile.  
Harrison, Linden to Belmont. Profile.  
Harrison, Chestnut to Union. Profile.  
Harrison, Ash to Oak. Profile.  
Harvard, Beech to east of Maple. Profile.  
Hayward, Beech to Wilson. Two profiles.  
Hayward, Valley, Maple and Lincoln. Cross-section of city yard.  
Highland, Lowell to Hanover. Profile.  
Joliette, Kelley to north of Bremer. Profile.  
Josselyn, Byron to Kennedy. Profile.  
Kelley, Morgan to Piscataquog river. Profile.  
Kennedy, Brown avenue to Josselyn. Profile.  
Kimball, Kelley to Amory. Profile.  
Lafayette, Kelley to Sullivan & Sheehan's north line. Profile.  
Lake avenue, Union to Beech. Profile.  
Laurel, Pine to Chestnut. Profile.  
Laurel, Pine to Beech. Two profiles.  
Laurel, Beech to Maple. Profile.  
Laurel, Milton to Belmont. Profile.  
Laurel south back, Chestnut east back to Pine. Profile.  
Laurel south back, Pine to Union. Profile.  
Lincoln, Hanover to Manchester. Profile.  
Lincoln, C. & P. R. R. to Valley. Profile.  
Lowell, Hall to Belmont. Profile.  
Lowell, Highland to Mammoth road. Profile.

- Main, South, A to Allen. Two profiles.
- Main, Putnam to Conant. Two profiles.
- Main, Conant to Granite. Profile.
- Mammoth road, Hayward southerly. Profile.
- Manhattan lane, Cedar to Auburn. Sewer profile.
- Maple, Valley to Prescott. Profile.
- Maple, Bridge to Pearl. Profile.
- Maple, Orange to Myrtle. Profile.
- Maple, Prospect to Harrison. Profile.
- Market, Elm to Franklin. Profile.
- Market, Elm to west of Franklin. Profile.
- Massabesic, Belmont to north of Spruce. Profile.
- Maxwell, Goffstown road southerly. Profile.
- Maynard avenue, Porter to Huse road. Profile.
- Merrill, Elm to Willow. Profile.
- Merrimack, Chestnut to Pine. Profile.
- Merrimack, Belmont to Milton. Profile.
- Merrimack south back, Chestnut east back to Pine. Profile.
- Milton, Manchester to Laurel. Profile.
- Oakland avenue, Mammoth road to Revere avenue. Profile.
- Pearl, Ash to Maple. Profile.
- Pinard, Piscataquog river to Mast road. Profile.
- Pine, Myrtle to Harrison. Profile.
- Pine, Harrison to Brook. Profile.
- Pine, Auburn to Valley. Profile.
- Pine, at Valley cemetery. Profile and sections of wall.
- Pine, at Valley cemetery. Design for pipe railing.
- Pine Grove cemetery, Woodside, Highland and Riverside avenues. Three profiles.
- Pine Grove cemetery, avenue around pond. Plan and profile.
- Porter avenue, Amherst to Concord. Profile.
- Putnam, east of Bartlett, culvert. Profile.
- Revere avenue, Oakland avenue to Glenwood avenue. Sewer profile.
- Reynolds avenue, Massabesic to Cemetery brook. Profile.
- River road, Thayer to Park avenue. Profile.
- River road, Thayer to south of West Clarke. Profile.
- Sagamore, Union to Walnut. Profile.
- Salisbury, Hanover to Amherst. Profile.
- Schuyler, Notre Dame avenue to Cartier. Profile.
- Second, Bell to Master. Profile.
- Seneca lane, Chestnut to Pine. Profile.
- Shasta, Beech to Union. Profile.
- Shasta, Lincoln to Hall. Profile.
- Springview avenue, Somerville northerly. Profile.
- Spruce, Hall to Belmont. Profile.
- Taggart, Goffstown road southerly. Profile.

Union, Prospect to Harrison. Profile.  
 Union, Brook to Blodget. Profile.  
 Union, Sagamore to North. Profile.  
 Union, Webster to Appleton. Profile.  
 Valley, Lincoln to Wilson. Profile.  
 Varney, Josselyn, to Merrimack river. Sewer profile.  
 Walnut, Brook to Blodget. Profile.  
 Walnut east back, Brook to Blodget. Profile.  
 Washington, Elm to Birch. Profile.  
 Wayne, Main to McGregor. Profile.  
 West, Douglas to Granite. Profile.  
 Willow, Valley to Hayward. Profile.  
 Wilson, Valley to Bell. Profile.  
 Young, Hall to Taylor. Profile.  
 Total working plans, 132.

## TRACINGS.

Ash, Beech, Bridge and Pearl. Plan of lots.  
 Bowman, at Varney school. Profile and sections of bank wall.  
 Bowman, at Varney school. Cross-section of schoolhouse lot.  
 Hayward, Valley, Maple and Lincoln. Cross-section of city yard.  
 Manchester Traction Light & Power Co., showing location of poles.  
 Forty-seven tracings.  
 McGregor bridge. Castings for new stringers.  
 New England Telephone & Telegraph Company, showing location of poles. Nineteen tracings.  
 Pine, at Valley cemetery. Profile and sections of wall.  
 Pine, at Valley cemetery. Design for pipe railing.  
 Pine Grove cemetery. Lakeside lawn.  
 Total tracings, 74.

## BLUE PRINTS.

Bowman, at Varney school. Plan and profile of proposed bank wall.  
 Bowman, at Varney school. Profile and sections of bank wall. Two prints.  
 City of Manchester, assessors' maps. Eight prints.  
 City of Manchester, East Side sewers. Ten prints.  
 City of Manchester, West Side sewers. Six prints.  
 Detail plan of catch-basin curbs. Twelve prints.  
 Detail plan of catch-basin frame and cover. Ten prints.  
 Detail plan of corner curbs. Four prints.  
 Detail plan of manhole frame and cover. Ten prints.  
 Detail plan of highway bound frame and cover. Ten prints.  
 Hayward, Valley, Maple and Lincoln. Cross-section of city yard.  
 Two prints.

Manchester Traction, Light & Power Co., showing location of poles. Ninety-four prints.

Manchester Traction, Light & Power Co., showing location of new curves for Canal and Depot.

Manchester Traction, Light & Power Co., showing location of new curves for Canal and Granite.

McGregor bridge, castings for new stringers.

New England Telephone & Telegraph Co., showing location of poles. Thirty-eight prints.

Pine, at Valley cemetery. Profile and sections of wall.

Pine, at Valley cemetery. Design for pipe railing. Three prints.

Pine Grove cemetery, Lakeside lawn. Three prints.

Pine Grove cemetery, Hillside, Lakeside and Cedar lawns.

Silver, Maple to Lincoln, showing tracks and overhead bridge for B. & M. R. R.

Squam lake. Six prints.

Total blue prints, 225.

#### SUMMARY.

Plans and profiles (sewer).....	17
Numbering plans .....	9
Miscellaneous plans .....	7
Working plans .....	132
Tracings .....	74
Blue prints .....	225
Sewer book (whole sheets).....	1
Sewer book (part sheets).....	4
City clerk's highway book.....	20
	<hr/>
	489

Six tracings showing city sewers have been brought up to date.

Maps brought up to date, 5.

Plans brought up to date, 106.

Plans made for establishing grade on laid out streets, 123,224 feet.

Plans made for establishing grade on streets not laid out, 27,648 feet.

Total, 150,872 feet.

Lot owners looked up, 6,748 feet.

#### SEWER LICENSES.

At a meeting of the board of mayor and aldermen, November 19, 1897, the city engineer was instructed "to examine the books in his office and present to said board a list of property owners who had neglected to pay the license fee required by the city laws and ordinances for entrance to the city sewers."

The records were examined and a list compiled, giving the name of the property owner, the location of the lot, the street frontage and



the license fee due upon each and every piece of occupied property within one hundred feet of a public sewer.

The said list was given in hand to the city clerk, as clerk of the board of mayor and aldermen.

The list comprised 1,017 names, and a notice was sent to each one by the city clerk. A summarized statement of the ground covered to January 1, 1909, follows, to wit:

Number of names January 1, 1898.....		1,017
Paid during 1898.....	277	
Granted free during 1898.....	76	
Paid prior to 1898, located during the year..	121	
Paid during 1899.....	24	
Granted free during 1899.....	12	
Paid during 1900.....	2	
Not connected .....	1	
Paid during 1901.....	2	
Granted free during 1901.....	1	
Paid during 1902.....	2	
Paid during 1903.....	3	
Paid during 1904.....	4	
Paid during 1906.....	1	
Paid during 1907.....	3	
Paid during 1908.....	2	
Granted free during 1907.....	1	
Paid prior to 1898, not located.....	60	
Paid previously .....	3	
Paid in part .....	1	
Covered by old permit.....	1	
Not recorded paid, receipts shown.....	5	
Recorded paid, no record of cash received..	2	
Claims to have paid, no record:.....	1	
Licenses taken out, not paid.....	17	
Not heard from .....	395	

Total number not settled January, 1909..... 485

1,017 1,017

Number of licenses granted new sewer enterers during 1908 .....	84
Number of sewer licenses granted delinquent sewer enterers during 1908.....	2
Number of free licenses granted sewer enterers during 1908 .....	1

Total number of licenses granted during 1908..... 87

Amount of money recorded as collected from two delinquent sewer enterers during 1908.....	\$42.98
Amount of money recorded as collected from new sewer enterers during 1908.....	1,219.36
	<hr/>
Total amount of money collected during 1908.....	\$1,262.34
All moneys are collected by the city clerk.	

## STREET NUMBERS.

Figures on hand January 1, 1909.....	1,669	
Letters on hand January 1, 1909.....	63	
Figures used during 1908.....		513
Letters used during 1908.....		4
Figures on hand January 1, 1909.....		1,156
Letters on hand January 1, 1909.....		59
	<hr/>	<hr/>
	1,732	1,732
Numbers assigned during 1908.....		158
Numbers replaced during 1908.....		25
Numbers changed during 1908.....		1
		<hr/>
Total .....		255

The expense of street numbers is charged to the appropriation for the engineer's department.

## HIGHWAY BOUNDS.

See Cost Record, Table No. 28.

Concrete bounds were used in 1905, 1906, 1907 and 1908 and having proved satisfactory their use will be continued. The bound is 42 inches long by 6 inches square; the letters E. D. show in the exposed end of bound. In the center of this end there is also a depression  $\frac{5}{8}$  inch and  $2\frac{1}{2}$  inches in diameter; the bound is reinforced by a  $\frac{3}{8}$  inch iron rod through the center of the bound lengthwise, the one end of which is upset to  $\frac{1}{2}$  inch diameter rounded and projects out of the depression about  $\frac{1}{2}$  inch. The center of this rounded end is prick pointed and can be used for instrument point and bench mark.

## COAL TAR PAVING.

Tables Nos. 1, 2, 3, 4, 5, and 6 give the location, number of square yards, price per square yard, total cost and date when measured of all coal tar "concrete" laid during the year as follows: Table No. 1, street crossings (new); Table No. 2, street crossings (repairs); Table No. 3, sidewalks (repairs); Table No. 4, street paving (new); Table No. 5, street paving (repairs); Table No. 6, summary of Tables Nos. 1, 2, 3, 4, and 5.

## GRANOLITHIC PAVING.

Table No. 7 A gives the location, number of square yards and date when measured of all granolithic paving laid during the year.

## WOODEN BLOCK PAVING.

Table No. 7 B gives the location, number of square yards and date when measured of all wooden block paving laid during the year.

## ABSTRACT REPORT OF THE COMMITTEE ON STREETS FOR THE YEAR 1908.

## PERSONNEL OF THE COMMITTEE.

Alderman from ward 7, Robert Edgar, chairman.

Alderman from ward 1, Ernest W. Wiesner.

Alderman from ward 4, Albert T. Barr.

Clerk of the committee, Samuel J. Lord.

Tables Nos. 8, 9, 10, 11, 12 and 13 have been compiled to be used in the annual report of the engineer's department in lieu of citing the record of the committee on streets in detail. The tables give information pertaining to the petitions that have been acted upon by the committee during the year 1908, also highways laid out, widened and straightened, and grades ordered established by the board of mayor and aldermen during the year.

Table No. 8 is a list of the petitions for new highways that have been acted upon by the committee during the year.

Table No. 9 is a list of the petitions for establishing grades that have been acted upon by the committee during the year.

Table No. 10 is a list of miscellaneous petitions that have been acted upon by the committee during the year.

Table No. 11 is a list of highways that have been laid out by the board of mayor and aldermen during the year.

Table No. 12 is a list of highway grades ordered established by the board of mayor and aldermen during the year.

Table No. 13 is a list of miscellaneous petitions that have been acted upon by the board of mayor and aldermen during the year.

Distances are given in feet.

## ABSTRACT REPORT OF THE COMMITTEE ON SEWERS AND DRAINS FOR THE YEAR 1908.

## PERSONNEL OF THE COMMITTEE.

Alderman from ward 3, Fred O. Parnell, chairman.

Alderman from ward 4, Albert T. Barr.

Alderman from ward 5, Richard J. Barry.

Clerk of the committee, Samuel J. Lord.

Tables Nos. 14, 15, 16, 17, 18, 19, and 20 have been compiled to be used in the annual report of the engineer's department in lieu of

citing the records of the committee on sewers and drains in detail. The tables give information pertaining to the petitions, orders for sewers passed by the city councils, sewers built and not built up to January 1, 1909.

Table No. 14 is a list of petitions that have been acted upon during the year, also the manner in which and date when each petition was acted upon and disposed of by the committee.

Table No. 15 is a list of sewers ordered in up to January 1, 1908, giving the distances built, distances built in excess of order, and distances remaining unbuilt up to January 1, 1909.

Table No. 16 is a list of sewers ordered built during the year 1908, giving distances built, distances ordered in that are unnecessary, and distances remaining unbuilt up to January 1, 1909.

Table No. 17 is a list of sewers built in 1908 not ordered in by the board of mayor and aldermen.

Table No. 18 is a list of pipe removed where sewers have been rebuilt.

Table No. 19 is a list of sewers ordered in but not built up to January 1, 1909; this table is compiled from the first, second, fourth, and eighth columns of Tables Nos. 15 and 16.

Table No. 20 is a summary of Tables Nos. 15 and 16.

#### SEWERAGE SYSTEM.

Table No. 21 gives the location, material, size, length, manholes new, manholes rebuilt, lampholes new, lampholes removed, house connections and cesspool connections built during the year 1908.

Table No. 22 gives the material, size, and length of all public sewers in the city of Manchester, January 1, 1909. This table gives the total length in feet of each size of sewer and the number of manholes on each size, also total length in feet and miles of each material.

Table No. 23 is a summary of the sewerage system by years from January 1, 1880, to January 1, 1909. It gives the length in miles constructed and cost each year, also the average cost per mile for each year. The third column gives the number of miles constructed to date each year. It is noted that on January 1, 1880, there were 17.06 miles constructed, the cost not being recorded. January 1, 1890, there were recorded 2,003 house connections; beginning with this date columns four and five give the number of connections recorded each year and the total number recorded to date each year.

#### ABSTRACT REPORT OF THE BOARD OF EXAMINERS OF PLUMBERS.

In accordance with an act (chapter 55, Laws of 1899) passed by the New Hampshire state legislature, entitled "An act authorizing the examination of plumbers and regulating the practice of plumbing and house drainage," a board of examiners of plumbers was appointed by the mayor as follows: William K. Robbins of the board of health, Christian L. Wolf, a master plumber, and Samuel J. Lord,

## ENGINEER'S DEPARTMENT.

703

city engineer (William K. Robbins, president, and Samuel J. Lord, clerk),

Following is a statement of the expenditures of the board for the year 1908:

## TEMPLE &amp; FARRINGTON COMPANY.

1908.

Mar. 17.	To binding one record of board of examiners of plumbers for 1907 .....	\$0.85
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## PIKE &amp; HEALD COMPANY.

1908.

May 18.	To 1 4" brass ferrule .....	\$0.85	
	4 10-12 ft. lt. soil pipe @ 30c.	1.45	
	10¾ lbs. wiping solder @ 25c.	2.69	
20.	4 lbs. oakum .....	.24	
		<hr/>	\$5.23
June 29.	To 11 lbs. wiping solder @ 24c...	\$2.64	
	2½ gals. gasoline @ 20c....	.50	
July 1.	1 4" brass ferrule .....	.75	
	1 pc. 4" lt. soil pipe, 20" long	.40	
	15-16 lb. block tin @ 50c....	.47	
2.	5 2-16 lbs. wiping solder @ 24c.	1.23	
	2 10-16 lbs. lead pipe @ 6¾c.	.17	
7.	15½ lbs. 1¼" lead pipe @ 6¾c.	1.04	
	1 4" brass ferrule .....	.75	
	1 hub end lt. soil pipe.....	.28	
	8¾ lbs. wiping solder @ 24½c.	2.10	
		<hr/>	\$10.33
20.	To 11 lbs. wiping solder @ 24c....	\$2.64	
	1 lb. Diamond paste .....	.15	
		<hr/>	\$2.79
Nov. 11.	To 2 gals. of gasoline @ 20c.....	\$0.40	
Dec. 16.	To 18 lbs. 1½" lead pipe @ 7c....	\$1.26	
	1 4" brass ferrule .....	.65	
	1 4" hub. end lt. soil pipe, 20"	.36	
	12¼ lbs. solder @ 23c.....	2.94	
		<hr/>	\$5.21

## THE JOHN B. CLARKE COMPANY.

1908.

June 6.	To printing annual report of board of exam- iners of plumbers, 6 pages @ 60c.....	\$3.60
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## SUMMARY.

Appropriated to the board of examiners of plumbers for the year 1908 .....	\$50.00
Expenses of the board during the year....	\$28.41
Balance unexpended .....	21.59
	<hr/>
	\$50.00
	<hr/>
	\$50.00



Renewal fees received for 36 plumbers' certificates @ 50c. each (a renewal fee of 50c. is required by state law) .....	\$18.00	
Renewal fees received for 26 plumbers' licenses @ 50c. each (required by law).....	13.00	
Examination fee for 4 plumbers' licenses @ \$1.00 each (required by law).....	4.00	
Paid to city treasurer (the state law requires all fees to be paid into the city treasury)		\$35.00
	<hr/> \$35.00	<hr/> \$35.00

Table No. 24 gives the name, address, and number of the application of each and every person making renewal application to the board for a plumbers' certificate. This table also gives the class of the certificate (master or journeyman), the number of the certificate, the date of renewal, and expiration of the certificate, also the renewal fee paid by the applicant.

Table No. 25 gives the name, address, and number of the application of each and every person making renewal application to the board for a plumbers' license. This table also gives the class of the license (master or journeyman), the number of the license, date of renewal, and expiration of the license, and also the renewal fee paid by the applicant.

Table No. 26 gives the name, address, and number of application of each and every person making application to the board for a plumbers' license. This table also gives the class of the license (master or journeyman), the number of the license, date of issue, and expiration of the license, also fee paid by the applicant.

Table No. 27 is a summary of tables Nos. 24, 25, and 26.

#### COST KEEPING.

The time book as kept by this office exhibits a complete record by days of each employee and the particular or several jobs each was engaged upon for each day during the year. This method has been in vogue since this department was created and will be continued.

In 1905 a new method (in this office) of keeping orders was begun, a card 4 x 6 inches being used, setting forth the nature of the order, date ordered, date done, and by whom done, transit and level books and plan references (for convenience), and each card numbered. This method was originally intended to do away with the many inconveniences due to keeping orders in an order book. Beginning in May, 1906, the cost keeping feature was added. This last method has proved satisfactory beyond expectation, a brief description of which follows:

Size of all cards, 5 x 8 inches; they are divided at the present time into eight classes of work, street and park commission (cards or



orders), embracing all work done by this office for the street and park commissioners, which includes all streets, sewer and park work, and might properly be designated location and construction engineering.

Chief engineer (cards or orders) include all preliminary office and field work, street surveys, levels for profile, cross section, estimates, plans, details, etc., for the street and park commission and individuals.

Miscellaneous (cards or orders) include the setting of all sidewalk grade, staking out street lines for abutters on highways, and for the staking out of sidewalk construction for any property owner or contractor.

Cemetery (cards or orders) include all preliminary location and office work done for cemeteries.

Highway bounds (cards or orders) include the work of setting bounds; it does not include the location of the points. This part of the work is done under chief engineer (cards or orders).

Street signs (cards or orders) include street sign work.

Street numbers (cards or orders) include measuring for street numbers, making numbering plans, assigning and putting on numbers.

Under office work "stock" includes all drawing material; under field work "stock" includes stakes, hubs, tacks, etc.; each team is charged in the cost record at 20 cents per hour (based on 312  $7\frac{1}{2}$ -hour days per year).

This price will cover cost, repairs, keeping, interest, and replacing new every ten years.

Table No. 28 is a list of highway bounds set and reset during 1908, giving the location, material (concrete or granite), new or reset, cost of labor, team, stock (cost of bound), and total cost per bound; also average cost of concrete bounds and granite bounds.

Table No. 29 is a detailed statement of levels for street profiles, and plan and profile work done under chief engineer (cards or orders). This table gives the location and limits of the several jobs, the length or distance covered, the number of lines of levels taken, the equivalent distance (under total distance) of a single line of levels, the cost of labor, team, and total cost of field work, the cost of labor, stock, and total cost of office work, and the total cost of field and office work of each job. This table is given in detail in order to show the actual cost of field and office work of each job.

Table No. 30 is a summary cost record of the cost of work done under miscellaneous (cards or orders), giving the number of orders, the location and description of work, the party or parties ordering the work done, the cost of labor, team, stock, and total cost of field work, the cost of labor, stock, and total cost of office work, and the total cost of field and office work.

Table No. 31 is a summary cost record of street sign work, giving the number of signs put up, cost of labor, team, stock, and total

cost; also footnotes giving the average cost per sign of labor, team, stock, and total average cost per sign.

Table No. 32 is a summary of street number orders, giving the number of orders, cost of labor, team, stock, and total cost of street number work. This does not include the street number figures given out at the counter. (See matter under street numbers.)

Table No. 33 is a summary cost record of the cost of cemetery work, giving the number of orders for each cemetery where work was done, the cemetery, the cost of labor, stock, and total cost of office work done for each cemetery, the cost of labor, team, stock, and total cost of field work, and the total cost of office and field work for each cemetery. This work is done under cemeteries (cards or orders).

Table No. 34 is a summary cost record of work done under street and park commissioners (cards or orders), giving the number of orders, description of work, cost of labor, team, stock, and total cost for each kind of work, as noted under description of work. Following this table is given the cost of labor, team, stock and total cost of preliminary field and office work, and cost of location field work and finished plans (estimated), setting forth the cost of sewer work engineering, and giving the percentage of cost of sewer work engineering to sewer work construction.

Table No. 35 is a summary of Tables Nos. 28, 29, 30, 31, 32, 33, and 34.

Total cost of labor for 1908, not including the salary of the chief engineer (not kept on cost cards).....		\$5,673.03
Total cost of labor recorded on all cards..	\$2,368.65	
Cost of labor not recorded on cards but recorded in time book and vacations.....	3,304.38	
	<hr/>	<hr/>
	\$5,673.03	\$5,673.03

TABLE No. 1.  
STREET-CROSSINGS (New).—ROBIE CONSOLIDATED CONCRETE COMPANY.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Wayne .....	South side, at Cartier east back.....	17.77	\$0.65	\$11.56	Oct. 20, 1908

TABLE No. 2.  
STREET CROSSINGS (Repairs).—ROBIE CONSOLIDATED CONCRETE CO.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Central .....	South side at Manhattan lane.....	2.222	\$0.35	\$ 0.78	June 11, 1908
" .....	At West, east side (M. W. Works).....	7.555	1.00	7.56	" 11, 1908
Clinton .....	At Nutfield lane, south side.....	1.555	.35	.54	" 18, 1908
Hanover .....	" .....	1.333	.50	.67	" 23, 1908
" .....	West side, at Laurel south back .....	0.333	.35	.12	" 23, 1908
Maple.....	East side, at Beech .....	20.000	.35	7.00	" 9, 1908
Merrimack .....	" .....	13.333	.35	4.67	" 10, 1908
" .....	West side, at Seneca lane.....	3.611	.50	1.81	" 10, 1908
Union .....	East side, at Central .....	21.000	.35	7.00	" 11, 1908
" .....	Between Notre Dame avenue and Cartier E. B.	18.000	.35	6.30	" 12, 1908
Wayne.....	At Clinton, north side (M. W. Works) .....	29.955	.35	10.48	Oct. 20, 1908
West.....		4.000	1.00	4.00	" 19, 1908
		121.897		\$50.93	

TABLE No. 3.  
SIDEWALKS (Repairs).—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	Per square yard.	Total cost.	Measured.
Amoskeag.....	1st pole west of bridge, south side (N. E. T. & T. Co). ....	1.333	\$0.50	\$0.67	June 22, 1908
Central .....	Northwest corner of Chestnut .....	54.943	.50	27.47	Oct. 20, 1908
Chestnut .....	West side, at gate to Merrimack common....	1.777	.25	.44	Dec. 4, 1904
" .....	" .....	10.305	.50	5.15	" 4, 1908
Concord.....	At Dr. Marden's, No. 382 .....	75.000	.50	37.50	Oct. 20, 1908
Franklin.....	East side, Market southerly.....	10.797	.35	3.78	Dec. 10, 1908
Manhattan lane .....	West side, Central southerly.....	13.472	.25	3.27	" 4, 1908
Market, north side.....	Opposite Franklin, northerly .....	5.000	.50	2.50	" 4, 1908
Merrimack common .....	Monument to N. W. gate.....	297.333	.25	56.83	" 4, 1908
" .....	" to W. gate.....	319.333	.25	79.83	" 4, 1908
" .....	" to E. gate.....	173.883	.25	43.47	" 4, 1908
" .....	" .....	36.777	.50	18.39	" 4, 1908
" .....	to S. E. gate.....	310.666	.25	77.67	" 4, 1908
" .....	South of monument.....	196.400	.25	49.10	" 4, 1908
" .....	South walk, near S. E. gate.....	7.000	.25	1.75	" 4, 1908
Merrimack .....	S. W. corner of Chestnut .....	9.333	.50	4.67	Oct. 20, 1908
Union .....	At Concord, at electric light pole (M. T. L. & P. Co).....	.677	.50	.33	June 11, 1908
" .....	North of Amherst, at pole No. 1 (M. T. L. & P. Co) .....	.444	.50	.22	" 11, 1908
		1,454.478		\$413 14	

TABLE No. 4.  
STREET PAVING (New).—ROBIE CONSOLIDATED CONCRETE COMPANY.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Hampshire lane.....	Market to Stark.....	400.166	\$0 50	\$200.08	Dec. 4, 1908
" .....	Market, southerly .....	154.666	.50	77.33	Dec. 4, 1908
		554.832		\$277.41	

TABLE No. 5.  
STREET PAVING (Repairs).—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	Per square yard.	Total cost.	Measured.
Amherst.....	Elm to Vine .....	8,555	\$0.50	\$ 4.28	June 13, 1908
"	"	2,000	.35	.70	" 13, 1908
"	(M. W. W.)	2,500	1.00	2.50	" 13, 1908
"	Elm to Nutfield lane (J. H. Mendell Co.)	1,323	1.00	1.33	" 13, 1908
"	"	4,944	1.00	4.94	" 13, 1908
"	Union to Beech .....	5,777	.50	2.89	" 23, 1908
Amoskeag.....	West end of bridge to First .....	111.111	.50	55.56	" 22, 1908
Central .....	Opposite Manhattan lane .....	12,222	1.00	12.22	" 11, 1908
Chestnut.....	Lowell to Seneca lane .....	9,444	.50	4.72	" 13, 1908
"	Seneca lane to Concord (south side) .....	8,916	.50	4.46	" 13, 1908
"	"	2,222	.35	.78	" 13, 1908
"	Concord to Amherst .....	10,500	.50	5.25	" 13, 1908
"	Amherst to Hanover .....	21,832	.50	10.92	" 15, 1908
"	Manchester to Merrimack .....	32,555	.50	16.28	" 15, 1908
"	"	13,888	.35	4.86	" 17, 1908
"	" Hanover .....	68,555	.50	34.27	" 9, 1908
"	"	625,166	.35	218.81	Sept. 2, 1908
"	At Merrimack .....	11,111	.50	5.56	" 8, 1908
"	(People's Gas Co)	6,000	1.00	6.00	" 8, 1908
Concord.....	Nutfield lane to Elm .....	65,555	.50	32.78	" 3, 1908
"	"	127,055	.35	44.47	" 3, 1908
Granite.....	Turner to Main .....	23,611	.50	11.80	June 18, 1908
"	"	18,888	.35	6.61	" 18, 1908
Hanover.....	Union to Beech .....	26,472	.50	13.24	" 11, 1908
"	(M. W. works)	2,555	.50	1.28	" 11, 1908
"	Pine to Chestnut .....	.550	.50	.28	" 23, 1908
"	Chestnut to Elm (around 3 manholes) .....	4,970	.50	2.49	" 23, 1908
"	At Beech southeast corner .....	5,000	.50	2.50	" 23, 1908
"	East of Chestnut .....	2,274	.35	.80	Sept. 8, 1908
"	Elm .....	4,888	.35	1.71	" 8, 1908
Main.....	At Fire King engine house .....	16,972	.50	8.49	June 19, 1908
"	Putnam to Wayne (M. W. works) .....	2,917	1.00	2.92	" 20, 1908
"	" (People's Gas Co.) .....	4,694	1.00	4.69	" 20, 1908
"	" .....	4,166	.50	2.08	" 20, 1908



Main	Wayne to Marion	1.777	.50	.89	June	20, 1908
"	Granite to School	3.111	.50	1.56	"	18, 1908
"	"	3.111	.35	1.09	"	18, 1904
"	School to Ferry	1.444	.50	.72	"	18, 1903
"	"	9.666	.35	3.38	"	18, 1903
"	Ferry to Walker	41.000	.50	20.50	"	18, 1903
"	Elm, easterly	81.111	.35	28.39	Dec.	4, 1903
Manchester	Lake avenue to Merrimack (People's Gas Co.)	115.972	.50	57.89	June	9, 1908
Maple	Between Lake ave. and Central (M. W. W.)	8.400	.50	4.20	"	3, 1908
"	Lake avenue to Merrimack	16.705	.35	5.85	"	3, 1908
"	"	51.277	.50	25.64	"	10, 1903
Merrimack	Maple to Beech	5.111	.35	1.79	"	10, 1903
"	Chestnut west side to Elm	60.277	.50	30.14	"	17, 1903
"	Southwest corner of Chestnut	4.000	.50	2.00	Oct.	20, 1908
Nutfield lane	Hanover to Anherst	20.538	.50	10.26	June	17, 1908
Union	Lowell to Hanover	31.940	.50	15.97	"	11, 1908
"	"	12.167	.35	4.26	"	11, 1908
"	" (M. W. works)	3.670	.50	1.84	"	11, 1908
"	Laurel to Lake avenue	21.444	.50	10.72	"	12, 1903
"	"	8.000	.35	2.80	"	12, 1903
"	At Central (People's Gas Co.)	14.666	.50	7.33	"	12, 1903
Vine	Concord to Anherst	4.166	.50	2.08	"	12, 1903
"	"	5.500	.35	1.83	"	12, 1903
		1,793.241		\$773.80		

TABLE No. 6.  
SUMMARY OF TABLES Nos. 1, 2, 3, 4, and 5.

DESCRIPTION.	CONTRACTOR.	Table No.	Square yards.	Cost.
Street crossings, new .....	Robie Consolidated Concrete Company .....	1	17,777	\$ 11.56
" " repairs .....	" " " .....	2	121,897	50.83
Sidewalks, repairs ....	" " " .....	3	1,454,478	413.14
Street paving, new .....	" " " .....	4	554,832	217.41
" " repairs .....	" " " .....	5	1,733,241	773.80
			3,943,225	\$1,526.84

TABLE No. 7.  
SIDEWALKS (New) (Granolithic).

LOCATION.	LIMITS.	Square yards.	Per square yard.	Total cost.	Measured.
Elm, west side .....	Market, northerly (City Hall) .....	178,580	Done by city	.....	Dec. 10, 1908
Market, north side .....	Elm to Hampshire lane (City Hall) .....	179,980	" "	.....	" 10, 1908

TABLE No. 8.  
PETITIONS FOR NEW HIGHWAYS ACTED UPON BY COMMITTEE ON STREETS DURING 1908.

LOCATION.	LIMITS.	Dis- tance.	Width.	Petition of	Date of petition.	Withdrawn.	Granted.
Belmont.....	Pearl to Harrison.....	1,125.50	50	F. W. Griffin.....	Jan. 10, 1908.....	.....	May 16, '08
Belmont place.....	Belmont, easterly.....	154.91	24	Robert R. Chase.....	April 19, 1907.....	Feb. 13, 1908	.....
Champlain.....	Goffstown road to 556.22 ft. north.....	536.22	40	Joseph A. Dusseault.....	July 21, 1908.....	.....	Aug. 31, '08
Coolidge avenue.....	Goffstown road to Gardner.....	368.00	75	Thomas Hamilton.....	Jan. 4, 1908.....	.....	June 4, '08
Dubuque east back.....	Amory to Kelley.....	650.00	20	Theodule Hebert.....	Aug. 29, 1907.....	.....	Apr. 25, '08
Ferry lane.....	Turner to Second.....	220.00	20	John J. Casey.....	Sept. 10, 1907.....	.....	" 25, '08
McDuffie.....	South Main to Boynton.....	286.49	40	Benjamin J. Mack.....	Aug. 7, 1908.....	.....	Oct. 5, '08
Sagamore.....	Bay to Chestnut.....	305.00	50	Grace D. Reynolds.....	Aug. 27, 1907.....	.....	Feb. 13, '08
Wayne.....	Hevey east back to Bartlett.....	985.00	50	T. G. Biron.....	May 6, 1908.....	.....	Oct. 26, '08
Cartier east back.....	Schuyler to Sullivan.....	400.00	20	Oscar Ouellette.....	April 20, 1908.....	.....	Aug. 4, '08
		5,051.02					

## SUMMARY.

Whole number of highway petitions acted upon.....	10	Total length of highways petitioned for.....	5,051.02
Granted leave to withdraw.....	1	Granted leave to withdraw.....	154.81
Granted a hearing.....	9	Granted a hearing.....	4,896.21
	10		5,051.02

TABLE No. 9.  
PETITIONS FOR ESTABLISHING GRADE ACTED UPON BY COMMITTEE ON STREETS DURING 1908.

LOCATION.	LIMITS.	Distance.	Width.	Petition of	Date of petition.	With-drawn.	Granted.
Belmont.....	Pearl to Harrison .....	1,075.50	50	F. W. Griffin .....	Jan. 10, 1908	.....	May 16, '08
Belmont place.....	Belmont easterly.....	154.81	24	Robert R. Chase .....	April 19, 1907	Feb. 13, 1908	.....
Blodget.....	Pine to Union.....	446.00	50	L. H. Lamprey .....	Jan. 10, 1908	.....	June 2, '08
Cartier east back.....	Schuyler to Sullivan .....	400.00	20	Oscar Ouelette.....	April 20, 1908	.....	Aug. 4, '08
Central.....	Hall to Belmont.....	307.00	40	E. C. Smith.....	" 30, 1902	.....	Apr. 25, '08
Champlain.....	Goffstown road to 536.22 ft. north.	536.22	40	Joseph A. Dusseault .....	July 21, 1908	.....	Aug. 31, '08
Coolidge avenue.....	Goffstown road to Gardner.....	368.00	75	Thomas Hamilton.....	Jan. 4, 1908	.....	June 4, '08
Dearborn.....	Summer to Taylor.....	603.50	40	Geo. M. Bean.....	June 19, 1908	.....	Aug. 4, '08
Dubuque east back.....	Turner to Kelley.....	650.00	20	Udrie Charland.....	Aug. 25, 1907	.....	Apr. 23, '08
Ferry lane.....	Turner to Second.....	220.00	20	John J. Casey.....	Sept. 10, 1907	.....	" 25, '08
Lafayette.....	Kelley to Bremer.....	550.00	50	Joseph Steinmetz .....	April 27, 1908	May 13, 1908	.....
Massabesic*.....	East Spruce to Belmont.....	88.00	50	W. P. Farmer.....	Sept. 4, 1906	.....	Aug. 27, '08
McDuffie.....	South Main to Ruynton.....	286.49	40	Benjamin J. Mack.....	Aug. 7, 1908	.....	Oct. 5, '08
Pearl.....	Pine to Walnut.....	716.00	50	A. Gale Straw.....	June 1, 1899	Feb. 13, 1908	.....
Sagamore.....	Bay to Chestnut.....	305.00	50	Grace D. Reynolds.....	Aug. 27, 1907	.....	Feb. 13, '08
Spruce*.....	Hall to Massabesic.....	140.00	50	W. P. Farmer.....	Sept. 4, 1906	.....	Aug. 27, '08
Wayne.....	Hevey east back to Bartlett.....	965.00	30	T. G. Biron.....	May 6, 1908	.....	Oct. 26, '08
		7,831.52					

\* Petition for changing grade.

### SUMMARY.

Whole number of grade petitions acted upon.....	17	Total length of highway grades petitioned for.....	7,831.52
Granted leave to withdraw.....	2	Granted leave to withdraw.....	\$70.81
Granted a hearing.....	15	Granted a hearing.....	6,960.71
	17		7,831.52

TABLE No. 10.  
MISCELLANEOUS PETITIONS ACTED UPON BY THE COMMITTEE ON STREETS DURING 1908.

LOCATION.	LIMITS.	Dis- tance.	Width.	Petition of	Date of petition.	With- drawn.	Granted.
Winter *	West of Main to Granite .....	1,097.00	5.5	M. R. Sullivan .....	April 6, 1908	.....	May 16, 1908

\* Petition for narrowing street 5.5 feet on south side.

TABLE No. 11.  
HIGHWAYS LAID OUT IN 1908 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Length.	Width.	Laid out.	Petition of	Date of petition.	Hearing rec- ommended.
Belmont .....	Pearl to Harrison .....	1,125.50	50	Oct. 26, 1908	F. W. Griffin .....	Jan. 10, 1908	May 16, 1908
Carlier east back .....	Schuyler to Sullivan .....	400.00	20	Sept. 25, 1908	Oscar Ouelette .....	April 20, 1908	Aug. 4, 1908
Dubuque east back .....	Amory to Kelley .....	650.00	20	May 1, 1908	Theodule Hebert .....	Aug. 23, 1907	April 25, 1908
Ferry lane .....	Turner to Second .....	230.00	20	June 5, 1908	John J. Casey .....	Sept. 10, 1907	" 25, 1908
McDuffie .....	South Main to Beynnton .....	286.49	40	Oct. 26, 1908	Benjamin J. Mack .....	Aug. 7, 1908	Oct. 5, 1908
North .....	Beech to Ash .....	220.00	50	June 5, 1908	Rosa A. Brickett .....	April 2, 1906	March 12, 1907
Sagamore .....	Bay to Chestnut .....	305.00	50	" 5, 1908	Grace D. Reynolds .....	April 27, 1907	Feb. 13, 1908
Schuyler .....	Main to Notre Dame avenue .....	301.00	50	" 5, 1908	Edmond Godbout .....	Aug. 3, 1905	Oct. 24, 1905
		3,507.99					

TABLE No. 12.  
HIGHWAY GRADES ORDERED ESTABLISHED BY THE BOARD OF MAYOR AND ALDERMEN DURING 1908.

LOCATION.	LIMITS.	Distance.	Width.	Petition of	Date of petition.	Ordered passed.
Belmont.....	Pearl to Harrison .....	1,075.50	50	F. W. Griffin.....	Jan. 10, 1908	Oct. 26, 1908
Blodget.....	Pine to Union.....	446.00	50	L. H. Lamprey.....	" 10, 1908	Sept. 25, 1908
Cartier east back.....	Schuyler to Sullivan .....	400.00	20	Oscar Ouelette.....	April 20, 1908	" 25, 1908
Central.....	Hall to Belmont.....	307.00	40	E. C. Smith.....	" 30, 1902	June 5, 1908
Dearborn.....	Summer to Taylor.....	603.50	40	Geo. M. Bean.....	June 19, 1908	Sept. 25, 1908
Dubuque east back.....	Amory to Kelley .....	630.00	20	Ulerie Charland.....	Aug. 29, 1907	June 5, 1908
Ferry lane.....	Second to Turner .....	220.00	20	John J. Casey.....	Sept. 10, 1907	" 5, 1908
Kennedy*.....	Brown avenue to Josselyn .....	895.00	40	Henry Lundberg.....	May 13, 1908	Sept. 25, 1908
Lafayette.....	Kelley to Bremer.....	550.00	50	Joseph Steinmetz.....	April 27, 1908	" 25, 1908
McBunfle.....	South Main to Boynton .....	235.00	40	Benjamin J. Mack ..	Aug. 7, 1906	Oct. 2, 1908
North.....	Beech to Ash.....	220.00	50	Rosa A. Brickett .....	April 2, 1907	June 5, 1908
Sagamore.....	Bay to Chestnut.....	255.00	50	Grace D. Reynolds....	Aug. 27, 1907	" 5, 1908
Schuyler.....	Main to Notre Dame avenue.....	301.00	50	Edmond Godbout.....	" 3, 1905	" 5, 1908
		6,158.00				

\* Petition for changing grade.



TABLE No. 13.  
MISCELLANEOUS PETITIONS ACTED UPON BY THE BOARD OF MAYOR AND ALDERMEN  
DURING 1908.

LOCATION.	LIMITS.	Distance.	Width.	Laid out.	Petition of	Date of petition.	Hearing recom- mended.
Brown avenue.....	John F. Bagley's north line north'ly	20.00	.....	May 1, 1908	Frank A. Gay	Dec. 20, 1907	April 7, 1908
" ".....	Ellen J. Fox's north line northerly..	100.00	.....	"	"	"	"
" ".....	Mill avenue north line northerly to	1,652.94	.....	"	"	"	"
" ".....	Pine Island park.....		.....	"	"	"	"
" ".....	John Fox's north line to Catherine		.....	"	"	"	"
" ".....	Dunn's north line.....	125.00	.....	"	"	Dec. 30, 1907	"
" ".....	Louis Perron's north line southerly..		.....	"	"	Dec. 20, 1907	"
" ".....	Catherine Dunn's north line to Isa-		.....	"	"	Jan. 1, 1908	"
" ".....	bellia Lane's north line.....	486.10	.....	"	"	Dec. 20, 1907	"
" ".....	Louis Perron's south line southerly	120.00	.....	"	"		
" ".....	William Brook's north line south'ly		.....				
		2,684.04					

TABLE No. 14.  
PETITIONS ACTED UPON BY THE COMMITTEE ON SEWERS AND DRAINS DURING THE YEAR 1908.

LOCATION.	LIMITS.	Distance.	Petition of	Date of Petition.	Withdrawn.	Granted.
Alsace .....	Kelley to Bremer.	600.00	Eugene Steinmetz .....	Feb. 7, 1908	.....	Sept. 15, '08
Clay .....	Union to Beech .....	492.00	Eugene Mailhot .....	Mar. 30, 1908	.....	.....
" .....	Lincoln to Wilson .....	670.00	John McCarthy .....	July 29, 1907	.....	June 18, '08
Knowlton .....	Taylor to Cypress .....	796.00	Milton C. Paige .....	Jan. 25, 1908	.....	"
Lincoln .....	Hayward, southerly 492 feet .....	492.00	Sullivan & Sheehan .....	Oct. 12, 1906	.....	"
.....	Silver to Clay .....	575.00	John McCarthy .....	July 29, 1907	.....	"
Mammoth road .....	No. 155 to Young .....	818.00	Mercy Home trustees .....	July .....	.....	Sept. 15, '08
Pine east back .....	Grove south back to Bell south back .....	270.00	James Sullivan .....	" 17, 1908	.....	"
Union .....	Plummer to Clay .....	299.00	Eugene Mailhot .....	Mar. 30, 1908	.....	"
		5,012.00				

## SUMMARY.

Whole number of petitions acted upon .....	9	Total length of sewers petitioned for .....	5,012.00
Granted leave to withdraw .....	0	Granted leave to withdraw .....	.....
Reported favorably .....	9	Reported favorably .....	5,012.00
	9 9		5,012.00



TABLE No. 15.—Continued.  
SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1908.

LOCATION.	LIMITS.	Distance.	Date of order.		BUILT DURING 1908.		NOT NEEDED.	NOT BUILT.
					Distance.	Excess.		
Concord.....	Dutton, westerly.....	97	Feb. 2, 1904					97
".....	Hall, easterly.....	86	Sept. 6, 1887					86
".....	Weston to Hubbard.....	101	" 27, 1905					101
Dix.....	Wilson to Hall.....	89	" 27, 1905					89
".....	Taylor to Cypress.....	442	July 15, 1904					442
Dover.....	Clinton, northerly.....	300	Sept. 4, 1894					300
Dutton.....	Concord, easterly.....	166	Feb. 2, 1904					166
Elm.....	Shasta to Baker.....	106	May 6, 1890					106
".....	Railroad bridge to Elm avenue.....	1,285	" 6, 1890					1,285
".....	Monroe south back to Clarke.....	707	June 4, 1885					707
".....	Trenton to Rowell.....	448	Feb. 4, 1886					448
Foster avenue.....	Valley to Hayward.....	140	July 14, 1896					140
Frederick.....	Second, easterly.....	175	" 26, 1899					175
Front.....	Eddy to north of hotel.....	2,800	Sept. 5, 1883					2,800
George.....	North of Milford to Charleston avenue.....	52	Oct. 7, 1902					52
Grove south back.....	Wilson, easterly.....	200	Nov. 2, 1897					200
".....	Clay to Dix.....	250	Dec. 19, 1902					250
".....	Lowell to East High.....	143	July 25, 1902					143
Hall road.....	Schuller, southerly.....	601	Aug. 5, 1898					601
Hale.....	Massabesic to Nelson.....	450	Nov. 9, 1894					450
Hanover.....	East of Alfred to Highland.....	134	Jan. 4, 1897					134
Harrison.....	Linden, easterly.....	216	Nov. 23, 1906		184			32
".....	Maple to Oak.....	350	Oct. 3, 1899					350
".....	Belmont, westerly.....	65	Sept. 1, 1896					65
Harvell.....	Hale to South Main.....	700	Nov. 9, 1894					700
Hayward.....	Ainsworth avenue to Cypress.....	148	Sept. 7, 1897					148
".....	Maple to Lincoln.....	389	May 17, 1906					389
".....	Porter to Mammoth road.....	292	" 17, 1906		290			2
".....	Union, easterly.....	85	Feb. 5, 1907					85
Hevey east back.....	Wayne, northerly.....	146	Jan. 7, 1896					146
".....	South of Amory to Columbus avenue.....	396	July 10, 1893					396
".....	Kelley to Brenner.....	350	June 4, 1901		166			184
High, East.....	West of Hall to Belmont.....	152	Aug. 30, 1901		181	29		192
".....	Beacon to Weston.....	192	July 5, 1904					116
Hosley.....	Grove to Summer.....	116	June 26, 1903					142
Hospital avenue.....	Chase avenue to Massabesic.....	142	Sept. 14, 1904					143
Huntress.....	Prince to McDuffie.....	163	Nov. 3, 1903					163
Jones.....	Nelson to Benton.....	285	Aug. 5, 1898					285

Knowlton .....	Hayward, southerly .....	Nov. 23, 1906 .....	.....	.....	67
Main, South .....	Schiller to Allen .....	Dec. 4, 1906 .....	.....	.....	1,340
Mammoth road .....	Hayward to No. 155 Mammoth road .....	May 17, 1906 .....	440	.....	15
" .....	Massabesic to Nelson .....	" 2, 1899 .....	.....	.....	32
" .....	Nelson, northerly .....	Aug. 5, 1898 .....	.....	.....	500
Maple .....	Prospect to Harrison .....	Oct. 19, 1905 .....	.....	.....	270
Massabesic .....	Hall road to Mammoth road .....	Mar. 2, 1899 .....	.....	.....	831
Mast .....	Rochelle avenue to Brock .....	Dec. 31, 1901 .....	.....	.....	176
" road .....	Wilkins, southerly .....	July 26, 1907 .....	.....	.....	176
Merrill .....	Jewett, easterly .....	June 5, 1900 .....	.....	.....	34
Montgomery east back .....	Kelley to Bremor .....	Dec. 31, 1901 .....	.....	.....	309
Oakland avenue .....	Revere avenue to Woodland avenue .....	Dec. 13, 1905 .....	.....	.....	1,250
Orange .....	Belmont, westerly .....	Feb. 4, 1896 .....	.....	.....	65
Pine .....	Silver to Plummer .....	Oct. 3, 1899 .....	.....	.....	320
" east back .....	South of Concord to Concord .....	Sept. 12, 1899 .....	.....	.....	160
Prescott .....	Maple, easterly .....	June 26, 1903 .....	.....	.....	21
" .....	Hall, westerly .....	Oct. 1, 1907 .....	.....	.....	80
Prospect .....	" easterly .....	Sept. 3, 1895 .....	.....	.....	100
Reed east back .....	Amory to Kelley .....	Oct. 1, 1907 .....	.....	.....	104
Ritmon .....	South of Wayne to Putnam .....	Aug. 6, 1901 .....	.....	.....	164
River road .....	Kelley to Mason .....	Sept. 1, 1897 .....	.....	.....	800
Sagamore .....	Clarke to Park avenue .....	Nov. 2, 1897 .....	.....	.....	306
Schiller .....	South of Blocket to Sagamore .....	Oct. 3, 1899 .....	.....	.....	770
Second .....	Shesbunt to Pine .....	July 31, 1903 .....	.....	.....	362
" .....	Hale to South Main .....	Nov. 10, 1896 .....	.....	.....	850
Somerville .....	North of Fretterick to Fretterick .....	July 26, 1894 .....	118	.....	160
" .....	South of Schiller to Harvell .....	Dec. 3, 1895 .....	.....	.....	512
" .....	Union to Maple .....	Aug. 2, 1898 .....	.....	.....	436
Springview avenue .....	Hall to west of Cypress .....	Dec. 19, 1902 .....	350	.....	.....
Spring, East .....	Kennedy, westerly .....	Feb. 5, 1907 .....	180	20	95
Sylvester .....	Somerville, northerly .....	July 26, 1899 .....	.....	.....	549
Taylor .....	Milford to Avon .....	Oct. 2, 1900 .....	.....	.....	75
Thornton .....	South of Valley, southerly .....	Mar. 6, 1906 .....	.....	.....	155
" .....	Wayne to Putnam .....	July 2, 1895 .....	.....	.....	180
" .....	Clarke to Trenton .....	Oct. 7, 1902 .....	.....	.....	401
" .....	Trenton, northerly .....	Aug. 6, 1895 .....	.....	.....	50
" east back .....	South of Christian brook, southerly .....	Jun. 4, 1897 .....	.....	.....	133
Valley .....	Cypress, westerly .....	Nov. 7, 1893 .....	.....	.....	2,306
" .....	Elm to Wilson .....	Jan. 29, 1897 .....	.....	.....	105
Walnut .....	Salmon, southerly .....	July 31, 1903 .....	.....	.....	204
" .....	Webster, northerly .....	Nov. 10, 1896 .....	.....	.....	88
" east back .....	Salmon, northerly .....	Oct. 3, 1899 .....	.....	.....	522
William .....	Milford to Mast .....	Dec. 4, 1900 .....	.....	.....	100
Willow .....	Silver to Baker .....	.....	.....	.....	.....
			2,850	29	22
					38,653

TABLE No. 16.  
SEWERS ORDERED IN DURING THE YEAR 1908.

LOCATION.	LIMITS.	Distance.	Date of order.	BUILT DURING 1908.		NOT. NEEDED.	NOT. BUILT.
				Distance.	Excess.		
Alsace	Kelley to Bremer	600	Nov. 27, 1908	606	6		492
Clay	Union to Beech	492	" 27, 1908				670
"	Lincoln to Wilson	670	July 21, 1908				246
"	Taylor to Cypress	798	" 21, 1908	550			492
Knowlton	Hayward, southerly	492	" 21, 1908				575
Lincoln	Silver to Clay	575	" 21, 1908				818
Mammoth road	No. 155 to Young	818	Nov. 27, 1908				270
Pine east back	Grove south back to Bell south back	270	" 27, 1908				299
Union	Plummer to Clay	299	" 27, 1908				
		5,012		1,156	6		3,862



TABLE No. 17.

## SEWERS BUILT IN 1908 WITHOUT AN ORDER.

LOCATION.	LIMITS.	Distance
Brooklyn avenue.....	Jewett to Cypress .....	314
Central *.....	Manhattan lane, westerly . . . . .	12
Chestnut *.....	Central south back to Central.....	126
"    †.....	Central to Laurel.....	250
Cypress.....	South of Hayward, southerly .....	298
Elm, South .....	Baker, southerly .....	466
Franklin *.....	Market, southerly .....	20
Glenwood avenue .....	Revere avenue, easterly ....	124
Howe .....	Maple to Wilson .....	1,273
Laurel †.....	Chestnut, easterly .....	26
"    .....	Wilson, easterly.....	156
Manhattan lane *.....	Auburn to Cedar south back .....	144
"    "    *.....	Central, southerly .....	60
"    "    †.....	"    "    .....	64
Market *.....	Franklin, easterly .....	30
Mil avenue.....	Brown avenue, westerly.....	168
Revere avenue.....	Oakland avenue to Glenwood avenue....	293
		3,826

\* Relaid.

† For cesspools

‡ Top sewer.

TABLE No. 18.  
PIPE REMOVED WHERE SEWERS HAVE BEEN RELAID.

LOCATION.	LIMITS.	PIPE REMOVED.			PIPE RELAID.		
		Material.	Size in inches.	Length in feet.	Material.	Size in inches.	Length in feet.
Central .....	Manhattan lane, westerly .....	Akron .....	15	12	Akron....	12	12
Chestnut .....	Central south back to Central .....	" .....	10	110	" .....	12	110
Franklin .....	Market, southerly .....	" .....	18	20	" .....	18	20
High, East .....	West of Belmont, westerly .....	" .....	10	27	" .....	10	27
Manhattan lane .....	Auburn to Cedar south back .....	Cement.....	12	132	" .....	20	132
" .....	Central, southerly .....	Akron.....	15	50	Portland.	24	50
" .....	" .....	" .....	15	10	" .....	10	10
Market.....	Franklin, easterly .....	" .....	18	20	Akron....	18	20
Mill avenue .....	West of Brown avenue, westerly .....	" .....	24	17	" .....	24	17
				398			398

TABLE No. 19.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1909.

LOCATION.	LIMITS.	Dis- tance.	Date of order.
Adams .....	Carpenter to Trenton.....	531	Dec. 19, 1902
Ainsworth avenue...	Hayward to Young.....	155	May 31, 1905
Amherst .....	Union to Ashland.....	2,600	May 2, 1893
Albert .....	Harrison to Brook.....	366	Jan. 23, 1906
Amory .....	Alsace to Joliet.....	252	Oct. 7, 1902
Auburn .....	Cypress, easterly.....	300	May 2, 1899
" south back..	Hall, easterly.....	150	Jan. 7, 1896
Bartlett .....	Sullivan, southerly.....	127	Mar. 6, 1906
Bay .....	Clarke to Carpenter.....	683	Apr. 14, 1903
Beacon .....	Amherst to Concord.....	71	Nov. 10, 1896
Beech .....	Harvard to Hayward.....	272	Oct. 4, 1898
" .....	Somerville to Shasta.....	192	Nov. 23, 1906
" .....	Bridge to Orange.....	573	Dec. 6, 1900
Belmont .....	Old Bridge to Bridge.....	200	Jan. 7, 1896
Blaine .....	Second to Hiram.....	228	Dec. 6, 1892
" .....	Second to Third.....	107	May 2, 1905
Bowman .....	Mast to Milford.....	455	Oct. 7, 1902
Bridge .....	Beacon to Weston.....	54	July 25, 1902
" .....	Weston to Highland.....	550	Apr. 24, 1907
Brook .....	Maple to Oak.....	192	June 4, 1907
Calef road.....	Baker, northerly.....	49	June 4, 1901
Cedar south back...	Beech, westerly.....	175	May 5, 1896
" " " .....	Maple to Lincoln.....	96	May 13, 1903
Central .....	Milton to Beacon.....	307	Sept. 6, 1898
" south back..	Chestnut to Union.....	860	July 9, 1901
Charleston avenue...	Rochelle avenue to Brock.....	531	June 12, 1906
Chester .....	Lincoln to Ashland.....	277	July 5, 1904
Chestnut .....	Carpenter to Trenton.....	147	Oct. 7, 1902
Clarke .....	Elm to Chestnut.....	290	Apr. 14, 1903
Clay .....	Union to Beech.....	492	Nov. 27, 1903
" .....	Lincoln to Wilson.....	670	July 21, 1908
" .....	Taylor to Cypress.....	246	July 21, 1908
Colby .....	West Hancock to Log.....	270	June 12, 1906
Columbus .....	Amory, southerly.....	128	July 26, 1899
Concord .....	Pine east back to Union.....	152	Sept. 12, 1899
" .....	Dutton, westerly.....	97	Feb. 2, 1904
" .....	Hall, easterly.....	86	Sept. 6, 1887
" .....	Weston to Hubbard.....	101	Sept. 27, 1905
Dix .....	Wilson to Hall.....	89	Sept. 27, 1905
" .....	Taylor to Cypress.....	442	July 15, 1904
Dover .....	Clinton, northerly.....	160	Sept. 4, 1894
Dutton .....	Concord, easterly.....	300	Feb. 2, 1904
Elm .....	Railroad bridge to Elm avenue.....	1,285	May 6, 1890
" .....	Monroe south back to Clarke.....	707	June 4, 1895
" .....	Trenton to Rowell.....	448	Feb. 4, 1896
Foster avenue .....	Valley to Hayward.....	140	July 14, 1896
Frederick .....	Second, easterly.....	175	July 26, 1899
Front .....	Eddy to north of hotel.....	2,800	Sept. 5, 1893
George .....	North of Milford to Charleston avenue.....	52	Oct. 7, 1902
Grove south back...	Wilson, easterly.....	200	Nov. 2, 1897
Hall .....	Clay to Dix.....	250	Dec. 19, 1902
" .....	Lowell to East High.....	143	July 25, 1902
Hall road .....	Massabesic to Nelson.....	601	Aug. 5, 1898
Hale .....	Schiller, southerly.....	450	Nov. 9, 1894
Hanover .....	East of Alfred to Highland.....	124	Jan. 4, 1897
Harrison .....	Linden, easterly.....	32	Nov. 23, 1906
" .....	Maple to Oak.....	350	Oct. 3, 1899
" .....	Belmont, westerly.....	65	Sept. 1, 1896
Harvell .....	Hale to South Main.....	700	Nov. 9, 1894
Hayward .....	Ainsworth avenue to Cypress.....	148	Sept. 7, 1897
" .....	Maple to Lincoln.....	389	May 17, 1906
" .....	Union, easterly.....	85	Feb. 5, 1907
Hevey east back....	Wayne, northerly.....	146	Jan. 7, 1896
" " " .....	South of Amory to Columbus avenue,	396	July 10, 1893

TABLE No. 19.—*Continued.*

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1909.

LOCATION.	LIMITS.	Distance.	Date of order.
Hevey east back...	Kelley to Bremer.....	184	June 4, 1901
High, East .....	Beacon to Weston.....	192	July 5, 1904
Hosley .....	Grove to Summer.....	116	June 26, 1903
Hospital avenue ...	Chase avenue to Massabesic.....	142	Sept. 14, 1904
Huntress .....	Prince to McDuffie.....	163	Nov. 3, 1903
Jones .....	Nelson to Benton.....	285	Aug. 5, 1898
Knowlton .....	Hayward, southerly .....	37	Nov. 23, 1906
" .....	" .....	492	July 21, 1908
Lincoln .....	Silver to Clay .....	575	July 21, 1908
Main, South .....	Schiller to Allen.....	1,340	Dec. 4, 1900
Mammoth road.....	Hayward to No. 155.....	15	May 17, 1906
" " .....	No. 155 to Young.....	818	Nov. 27, 1908
" " .....	Massabesic to Nelson.....	32	May 2, 1899
" " .....	Nelson, northerly .....	500	Aug. 5, 1898
Maple .....	Prospect to Harrison .....	270	Oct. 19, 1905
Massabesic .....	Hall road to Mammoth road.....	831	Mar. 2, 1899
Mast .....	Rochelle avenue to Brock.....	176	Dec. 31, 1901
Mast road .....	Wilkins, southerly .....	176	July 26, 1907
Merrill .....	Jewett, easterly .....	34	June 5, 1900
Montgomery east back	Kelley to Bremer.....	309	Dec. 31, 1901
Oakland avenue ...	Revere avenue to Woodland avenue..	1,250	Dec. 13, 1905
Orange .....	Belmont, westerly .....	65	Feb. 4, 1896
Pine .....	Silver to Plummer .....	320	Oct. 3, 1899
" east back .....	Grove south back to Bell south back	270	Nov. 27, 1908
" " .....	South of Concord to Concord.....	160	Sept. 12, 1899
Prescott .....	Maple, easterly .....	21	June 26, 1903
" .....	Hall, westerly .....	80	Oct. 1, 1907
" .....	" easterly .....	100	Sept. 3, 1895
Prospect .....	Amory to Kelley .....	104	Oct. 1, 1907
Reed east back .....	South of Wayne to Putnam.....	164	Aug. 6, 1901
Rimmon .....	" .....	800	Sept. 7, 1897
" east back...	Kelley to Mason.....	306	Nov. 2, 1897
River road .....	Clarke to Park avenue .....	770	Oct. 3, 1899
Russell .....	South of Blodget to Sagamore.....	362	July 31, 1903
Sagamore .....	Chestnut to Pine .....	850	Nov. 10, 1896
Schiller .....	Hale to South Main .....	160	Dec. 3, 1895
Second .....	South of Schiller to Harvell.....	512	Aug. 2, 1898
Somerville .....	Union to Maple .....	436	Dec. 19, 1902
" .....	Hall to west of Cypress .....	95	Apr. 2, 1907
Spruce, East .....	Kennedy, westerly .....	546	July 26, 1899
Sylvester .....	Milford to Avon .....	75	Oct. 2, 1900
Taylor .....	South of Valley, southerly .....	155	Mar. 6, 1906
Thornton .....	Wayne to Putnam.....	299	Nov. 27, 1908
Union .....	Plummer to Clay .....	180	July 2, 1895
" .....	Clarke to Trenton .....	401	Oct. 7, 1902
" .....	Trenton, northerly .....	50	Aug. 6, 1895
" east back.....	South of Christian brook, southerly..	133	Jan. 4, 1897
Valley .....	Cypress, westerly .....	2,396	Nov. 7, 1893
" .....	Elm to Wilson .....	105	Jan. 29, 1897
Walnut .....	Salmon, southerly .....	204	July 31, 1903
" .....	Webster, northerly .....	88	Nov. 10, 1896
" east back ...	Salmon, northerly .....	522	Oct. 3, 1899
William .....	Milford to Mast .....	100	Dec. 4, 1900
Willow .....	Silver to Baker.....		
		42,515	

TABLE No. 20.

## SUMMARY.

Table No. 15, column 3, (ordered in to January 1, 1908)....	41,496	
Table No. 15, column 5, (built) .....		2,850
Table No. 15, column 6, (built in excess of order).....	29	
Table No. 15, column 7, (not needed).....		22
Table No. 15, column 8, (not built).....		38,653
Table No. 16, column 3, (ordered in during 1908).....	5,012	
Table No. 16, column 5, (built) .....		1,156
Table No. 16, column 6, (built in excess of order).....	6	
Table No. 16, column 8, (not built).....		3,862
	<hr/>	<hr/>
	46,543	46,543
Sewers built in 1908 of those ordered in to January 1, 1909 (feet).....		4,006
Sewers built in 1908 without orders (feet).....		3,428
Sewers relaid in 1908 without orders (feet).....		398
		<hr/>
Total length of sewers built in 1908 (feet).....		7,832

TABLE No. 21.  
SEWERS BUILT IN 1908.

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet (new).	Length in feet (re-laid).	Manholes (new).	Manholes (rebuilt).	Lampholes (new).	Lampholes (removed).	House connections.	Cesspool connections.
Alsace .....	Kelley, northerly .....	Akron .....	10	606	.....	2	.....	.....	.....	21	.....
Beech .....	Shasta, northerly .....	" .....	12	340	.....	2	.....	.....	.....	10	.....
" .....	South of Orange, southerly .....	" .....	10	86	.....	.....	.....	1	.....	9	1
Brooklyn avenue .....	Jewett to Cypress .....	" .....	10	314	.....	1	.....	3	.....	.....	.....
Central .....	Manhattan lane, westerly .....	" .....	12	.....	12	.....	.....	.....	.....	.....	3
Chestnut .....	Central south back to Central .....	" .....	12	16	110	1	.....	.....	.....	.....	2
" .....	Central to Laurel .....	" .....	10	270	.....	1	.....	.....	.....	6	.....
Clay .....	Taylor, easterly .....	" .....	8	150	.....	.....	.....	.....	.....	14	.....
" .....	Cypress, westerly .....	" .....	10	350	.....	.....	.....	.....	.....	2	.....
" .....	" .....	" .....	8	50	.....	1	.....	.....	.....	15	2
" .....	" to Jewett .....	" .....	12	439	.....	1	.....	.....	.....	2	.....
Cypress .....	South of Hayward, southerly .....	" .....	10	298	.....	1	.....	.....	.....	20	.....
Elm .....	North of Baker to south of Baker .....	" .....	10	572	.....	2	.....	1	.....	.....	.....
Franklin .....	Market, southerly .....	" .....	18	.....	20	.....	.....	.....	.....	.....	.....
Glenwood avenue .....	Revere avenue, easterly .....	" .....	18	124	.....	.....	.....	.....	.....	.....	.....
Harrison .....	Linden, easterly .....	" .....	12	100	.....	.....	.....	.....	.....	4	.....
" .....	" .....	" .....	10	84	.....	.....	.....	.....	.....	4	.....
Hayward .....	Knowlton to Mammoth road .....	" .....	15	290	.....	2	.....	.....	.....	6	.....
Hevey east back .....	North of Kelley, northerly .....	" .....	10	166	.....	.....	.....	1	.....	2	.....
High, East .....	Helmont, westerly .....	" .....	10	154	27	.....	.....	.....	.....	6	.....
Howe .....	Maple to Wilson .....	" .....	12	1,273	.....	5	.....	.....	.....	42	.....
Laurel .....	Chestnut, easterly .....	" .....	10	26	.....	.....	.....	.....	.....	.....	2
" .....	Wilson, easterly .....	" .....	10	156	.....	.....	.....	.....	.....	5	1
Mammoth road .....	Hayward, southerly .....	" .....	15	440	.....	.....	.....	.....	.....	4	.....
Manhattan lane .....	Auburn to Cedar south back .....	" .....	20	132	.....	2	.....	.....	.....	3	.....
" .....	Central, southerly .....	Portland .....	24	.....	50	.....	.....	.....	1	.....	.....
" .....	" .....	" .....	20	.....	10	.....	.....	.....	.....	.....	.....
" .....	" .....	" .....	12	64	.....	1	.....	.....	.....	4	1
Market .....	Franklin, easterly .....	Akron .....	18	10	.....	1	.....	.....	.....	.....	.....
Mill avenue .....	Brown avenue, westerly .....	" .....	24	151	17	.....	.....	.....	.....	1	2
Revere avenue .....	Oakland avenue to Glenwood avenue .....	" .....	24	295	.....	.....	.....	.....	.....	1	.....
Second .....	Frederick, northerly .....	" .....	10	118	.....	1	.....	.....	.....	1	.....
Somerville .....	Belmont, easterly .....	" .....	10	350	.....	.....	.....	.....	.....	11	.....
Springview avenue .....	Somerville, northerly .....	" .....	8	180	.....	2	.....	.....	.....	7	.....
				7,434	398	31	.....	7	1	198	14



TABLE No. 22.  
MATERIAL, SIZE AND LENGTH OF SEWERS JANUARY 1, 1909.

SIZE IN INCHES.	Akron.	Portland (old).	Portland (new).	Cement.	Earthen.	Brick.	Cast iron.	Steel riveted.	Total feet.	Man- holes.
6.....	128								128	1
8.....	13,311	30	601				24		14,026	21
9.....				7,437					7,437	1
10.....	118,927	3,990	11,730		1,175		90		135,912	379
12.....	99,365		8,263	18,227	2,055		34		128,150	276
14.....							24		24	
15.....	39,407		5,338	490			70		45,305	152
18.....	5,799	770	1,815	890		4,897			14,111	40
20.....	14,463		4,372				158		18,999	66
22.....			958						958	5
24.....	22,419		5,583	735		1,900	36	67	30,740	142
16X24				1,697					1,697	7
27.....			465						465	3
29.....						1,600			1,600	
36.....						506	277.5	39	822.5	1
42.....						446			446	
44.....						1,195			1,195	2
48.....								372	372	3
57.....									1,400	2
60.....						1,400			285	3
17X26						285			1,400	1
20X30						1,506			1,506	4
22X33						1,197			1,197	5
24X36						849			849	3
26X39						11,051			11,051	39
29X44						514			514	2
30X46						4,530			4,530	10
32X48						1,360			1,360	1
36X54						3,279			3,279	10
38X57						1,067			1,067	4
40X60						4,388			4,388	8
42X63						730			730	4
48X75						3,104			3,104	9
50X75						712			712	2
Total feet.....	314,025	4,850	39,131	29,446	3,230	46,546	713.5	478	438,419.5	1,206
Total miles.....	59.474	0.919	7.411	5.577	0.611	8.816	0.135	0.09	83.033	

TABLE No. 23.  
SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

YEAR.	Miles con- structed during year.	Miles con- structed to date.	House con- nections recorded during year.	House con- nections recorded to date.	Cost of sewers.	Average cost per mile.
1880.....	1.62	18.66	.....	.....	\$19,919.40	\$12,295.92
1881.....	2.18	20.84	.....	.....	23,895.12	10,961.06
1882.....	3.37	24.21	.....	.....	24,148.13	7,165.65
1883.....	2.54	26.75	.....	.....	21,452.05	8,445.69
1884.....	1.73	28.48	.....	.....	21,548.60	12,445.84
1885.....	1.56	30.04	.....	.....	28,122.84	18,027.46
1886.....	2.15	32.19	.....	.....	44,479.15	20,687.97
1887.....	1.44	33.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	18,008.20
1889.....	2.66	38.02	.....	2,003	27,513.73	10,343.51
1890.....	1.81	39.83	64	2,067	39,297.97	21,711.58
1891.....	3.08	42.91	153	2,220	55,409.73	17,990.17
1892.....	3.13	46.04	214	2,434	39,724.65	12,691.58
1893.....	3.31	49.35	191	2,625	51,392.15	15,526.33
1894.....	2.91	52.26	258	2,883	46,116.01	15,847.42
1895.....	3.98	56.24	255	3,138	71,859.36	18,055.11
1896.....	4.73	60.97	237	3,375	66,408.87	14,099.33
1897.....	*3.93	64.44	283	3,658	36,258.41	9,226.05
1898.....	*3.76	67.62	520	4,178	34,939.51	9,292.42
1899.....	*1.54	69.03	208	4,386	16,683.39	10,819.31
1900.....	*1.14	70.17	231	4,617	13,748.41	12,091.58
1901.....	1.74	71.91	227	4,844	14,724.39	8,462.29
1902.....	*1.95	73.46	186	5,030	20,973.05	10,755.41
1903.....	1.41	74.87	190	5,220	17,330.32	12,291.00
1904.....	*2.22	76.75	300	5,520	25,574.79	11,520.17
1905.....	*1.91	78.51	319	5,839	23,437.19	12,270.78
1906.....	*1.35	79.69	163	6,002	21,313.20	15,787.55
1907.....	*2.04	81.63	199	6,201	25,631.95	12,564.68
1908.....	*1.48	83.03	198	6,399	12,818.59	8,661.21
Total...	.....	.....	.....	.....	† \$895,769.07	.....

\* Includes old sewers relaid.

† Total cost for 29 years.

TABLE No. 24.

## PLUMBERS' CERTIFICATES RENEWED DURING THE YEAR 1908.

## ENGINEER'S DEPARTMENT.

731

NAME.	RESIDENCE.	No. of application.	Renewal fee received.	Class of plumber.	No. of certificate.	Date of renewal.	Date of expiration.
Amlaw, A. A.....	777 Grove .....	19	\$0.50	Master.	18	Aug. 31, 1908	Aug. 31, 1909
Bangs, Charles S.....	1 Morrison .....	77	.50	Journeyman.	47	"	"
Belanger, Arthur .....	96 Orange .....	28	.50	"	26	"	"
Blood, Frank W. ....	367 Merrimack .....	76	.50	Master.	84	"	"
Briggs, Thomas J.....	60 Parker .....	84	.50	"	65	"	"
Brock, James L.....	21 Market .....	27	.50	"	25	"	"
Caron, Hermenegelde .....	60 McGregor .....	63	.50	"	77	"	"
Carr, Thomas H.....	192 Green .....	101	.50	"	71	"	"
Cavanaugh, Thomas J.....	54 Canal .....	42	.50	Journeyman.	95	"	"
Clark, Charles H.....	98 Beech .....	100	.50	Master.	76	"	"
Coleman, Michael J.....	540 Maple .....	7	.50	"	7	"	"
Colby, James A.....	286 Merrimack .....	105	.50	Journeyman.	82	"	"
Connors, John A.....	10 Grove St., Lowell, Mass..	17	.50	"	85	"	"
Farrell, John D.....	31 Amory .....	89	.50	"	53	"	"
Florand, Joseph .....	97 Orange .....	35	.50	"	30	"	"
Geisler, John.....	79 Turner .....	33	.50	"	29	"	"
Goodwin, William E.....	Hooksett road .....	41	.50	Master.	35	"	"
Greer, Leslie C.....	Grasmere, N. H.....	2	.50	Journeyman.	2	"	"
Griffin, Frank W.....	340 Harrison .....	26	.50	Master.	24	"	"
Head, Frank E.....	289 Concord .....	92	.50	"	70	"	"
Knoettner, George .....	245 Railroad .....	46	.50	Journeyman.	36	"	"
Knoettner, Oscar.....	326 Main .....	59	.50	Master.	79	"	"
Lane, Frank A.....	731 Beech .....	79	.50	"	48	"	"
Leighton, Frank D.....	78 Liberty .....	23	.50	"	61	"	"
Lewis, Fred S.....	165 Mammoth road .....	40	.50	"	34	"	"
Longval, Delphis .....	City .....	51	.50	Journeyman.	68	"	"
Marchand, Joseph F.....	581 Rimmon .....	55	.50	Master.	42	"	"
Mayo, Albert F.....	265 Belmont .....	9	.50	Journeyman.	9	"	"
McDonald, Charles F.....	216 Lowell .....	5	.50	Master.	5	"	"
McKenna, Daniel J.....	101 Amherst .....	65	.50	Journeyman.	92	"	"
McKenna, John J.....	" .....	18	.50	"	17	"	"
Merrill, Edwin W.....	126 Blodget .....	74	.50	Master.	54	"	"
O'Brien, Martin.....	163 Amherst .....	16	.50	"	16	"	"
O'Toole, Thomas J.....	567 Cedar .....	40	.50	Journeyman.	86	"	"
Thornton, John J.....	34 Old Bridge .....	45	.50	"	87	"	"
Wolf, Adolph A.....	38 Clinton .....	69	.50	"	45	"	"
Wolf, Christian L.....	36 Clinton .....	15	.50	Master.	15	"	"

TABLE No. 25.

## PLUMBERS' LICENSES RENEWED DURING THE YEAR 1908.

NAME.	RESIDENCE.	No. of application.	Renewal fee received	Class of plumber.	No. of license.	Date of renewal.	Date of expiration.
Redard, Nelson E.	7 Factory St., Nashua, N. H.	57	\$0.50	Master.	42	Aug. 31, 1908	Aug. 31, 1909
Relanger, Ernest.	336 Prospect.	12	.50	Journeyman.	6	"	"
Bradley, John J.	16 Second street, Amoskeag	45	.50	"	33	"	"
Bretton, Frank.	159 Manchester.	24	.50	"	18	"	"
Briers, Allen.	1037 Elm.	56	.50	"	43	"	"
Brook, Ira C.	250 Walnut.	23	.50	"	14	"	"
Brown, William T.	43 Market.	53	.50	"	41	"	"
Chapman, John W.	890 Clay.	22	.50	"	12	"	"
Clement, Joseph H.	263 Union avenue, Laconia.	39	.50	Master.	27	"	"
Corey, Edward C.	485 Pine	31	.50	"	20	"	"
Douglas, Ernest H.	253 Pearl.	66	.50	Master.	47	"	"
Foster, Frederick F.	287 Massabesic	54	.50	Journeyman.	39	"	"
Gandette, Alfred J.	601 Amory.	17	.50	Master.	13	"	"
Grimard, Alfred.	615 Union.	52	.50	Journeyman.	38	"	"
Hartshorn, John E.	485 Pine.	45	.50	"	16	"	"
Henderson, John B.	168 Central.	62	.50	Master.	45	"	"
Horsfall, James W.	322 Central.	55	.50	Journeyman.	40	"	"
Lacerte, Albert L.	581 Bimmon.	27	.50	"	19	"	"
Langer, Richard C.	36 Clinton.	29	.50	Master.	31	"	"
Lewis, Albert M.	1166 Hayward.	26	.50	"	17	"	"
Marston, Gardner E.	3 Morrison.	43	.50	"	30	"	"
Osborne, Frank C.	26 Mechanic	60	.50	Journeyman.	46	"	"
Raiche, Trefle.	286 Coolidge avenue.	5	.50	Master.	7	"	"
Seaman, Carl O.	497 Hanover.	4	.51	"	1	"	"
Steele, James A.	339 Amherst.	48	.50	Journeyman	35	"	"
VanBrocklin, George.	372 Lowell.	44	.50	Master.	32	"	"

TABLE No. 26.  
PLUMBERS' LICENSES GRANTED DURING 1908.

NAME.	RESIDENCE.	No. of application.	Examination fee received.	Class of plumber.	No. of license.	Date of issue.	Date of expiration.
Douglas, Ernest H. ....	504 Chestnut.....	66	\$1.00	Journeyman.	47	July 25, 1908	Aug. 31, 1908
Osborn, Frank C. ....	642 Union .....	60	1.00	"	46	May 22, 1908	"
Steele, James A. ....	339 Amberst. ....	69	1.00	Master.	48	Nov. 12, 1908	" 1909
Thomas, Wm. ....	47 Lock St., Nashua, N. H. ....	70	1.00	Journeyman.	49	Dec. 21, 1908	"

TABLE No. 27.

SUMMARY OF TABLES Nos. 24, 25 and 26.

Master plumbers' certificates renewed during the year 1908 .....	22
Journeyman plumbers' certificates renewed during the year 1908.....	14
Master plumbers' licenses renewed during the year 1908.....	12
Journeyman plumbers' licenses renewed during the year 1908.....	14
Master plumbers' licenses granted during the year 1908 .....	1
Journeyman plumbers' licenses granted during the year 1908.....	3
Plumbers' licenses granted after August 31, 1908 (not renewable until August 31, 1909) .....	4
Total certificates and licenses in force December 31, 1908. ....	62
	2
	64

TABLE No. 28.  
COST RECORD—HIGHWAY BOUNDS SET DURING THE YEAR 1903.

LOCATION.	Con- crete.	Granite.	Reset.	Labor.	Team.	Stock.	Total.
A and B, northeast corner.....	1	.....	.....	\$1.27	.20	\$0.51	\$1.98
Amoskeag, P. C. on north side.....	1	.....	.....	1.27	.20	.51	1.98
Ash and Orange, southeast corner.....	.....	.....	1	1.88	.40	.01	2.29
Pearl, northeast corner.....	.....	.....	1	2.31	.30	.02	2.63
B, angle north of A, east side.....	.....	.....	.....	1.27	.20	.51	1.98
Bath and Third, northeast corner.....	1	.....	.....	1.27	.20	.51	1.98
Bay and Carpenter, southeast corner.....	1	.....	.....	1.31	.30	.01	2.22
Beech and Silver, southwest corner.....	.....	.....	1	.64	.10	.02	.76
Belmont and Mead, southwest corner.....	.....	.....	1	2.55	.40	.01	2.96
Brook and Pine, northeast corner.....	.....	.....	1	.70	.30	.51	1.51
Chester and Derry, southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
Clarke and Union, southwest corner.....	1	.....	.....	3.82	.60	.51	4.93
Clay and Taylor, southeast corner.....	1	.....	.....	2.31	.30	.52	3.13
Clough avenue and Spruce, southwest corner.....	.....	.....	1	1.54	.20	.01	1.75
Concord and Derry, southwest corner.....	.....	.....	.....	1.27	.20	.51	1.98
Everett and Thayer, southeast corner.....	.....	.....	1	1.27	.20	.51	1.48
Front, line of schoolhouse lot, east side.....	.....	.....	.....	2.55	.40	.52	3.47
Glenwood avenue and Woodland avenue, southwest corner.....	1	.....	.....	1.27	.20	.51	1.98
Goffstown road and Maxwell, southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
"    "    Taggart, southwest corner.....	.....	1	.....	1.27	.20	1.26	2.73
Green and Pine, southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
"    Union, southwest corner.....	1	.....	.....	1.27	.20	.51	1.98
Grove and Pine, southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
"    Union, northeast corner.....	1	.....	.....	2.55	.40	.51	3.46
"    "    northwest corner.....	1	.....	.....	1.27	.20	.51	1.98
"    "    southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
Hanover and Lincoln, northwest corner.....	1	.....	.....	1.54	.20	.51	2.25
Harrison and Linden, southeast corner.....	1	.....	.....	1.27	.20	.51	1.98
Hayward and Lincoln, northwest corner.....	1	.....	.....	1.07	.20	.51	1.78
"    "    Maple, northeast corner.....	1	.....	.....	1.07	.20	.51	1.78
Josselyn and Kennedy, northeast corner.....	.....	1	.....	1.27	.20	1.26	2.73
Kennedy and Marshall, northwest corner.....	.....	1	.....	1.27	.20	1.26	2.73
Lincoln and Valley, southwest corner.....	1	.....	.....	1.27	.20	.51	1.98
Londonderry turnpike, first angle north of Candia road, east side.....	1	.....	.....	3.08	.40	1.27	4.75
Maple and Concord, northwest corner.....	1	.....	.....	1.54	.20	.50	2.24



Maple and Concord, southwest corner.....	1	.....	.....	1.54	.50	2.24
" " Orange,.....	1	.....	.....	1.54	.51	2.25
" " Pearl, northwest corner.....	1	.....	.....	1.54	.51	2.25
" " Valley, southeast corner (lot corner).....	1	.....	.....	1.07	.51	1.78
Mason and Rinnon, center.....	.....	1	.....	1.91	1.26	3.47
Oakland avenue and Mystic avenue, northeast corner.....	1	.....	.....	3.82	.51	4.93
" " Woodland avenue, northwest corner.....	1	.....	.....	2.55	.52	3.47
	30	5	7	\$69.16	\$21.71	\$101.67

Cost of concrete bounds, \$0.50 each.  
 Cost of granite bounds, \$1.25 each.  
 Cost of team, \$0.20 per hour.

Average cost of 30 concrete bounds, including setting, \$2.37.  
 Average cost of 5 granite bounds, including setting, \$3.23.  
 Average cost of 35 bounds, including setting, \$2.50.

TABLE No. 29.  
COST RECORD.—FIELD WORK (Levels for Profile). OFFICE WORK (Plans and Profiles).

LOCATION.	LIMITS.	Distance	No. lines.	FIELD WORK.		OFFICE WORK.			Total cost.		
				Total distance.	Labor.	Team.	Total.	Labor.		Stock.	Total.
Amherst.....	Askland to Hall.....	625	5	3,125	\$2.55	\$0.40	\$2.95	\$1.32	\$0.05	\$1.37	\$4.32
".....	Beacon to Highland..... [Rd	1,050	3	3,150	3.82	.60	4.42	3.00	.10	3.10	7.52
".....	East of Salisbury to Mammoth	1,050	3	3,150	1.57	.20	1.77	3.00	.10	3.10	4.87
Amoskeag.....	Amoskeag bridge to Front.....	780	5	3,900	4.46	.70	5.16	1.20	.05	1.25	6.41
Arlington.....	Maple to Nashua.....	520	5	2,600	1.54	.20	1.74	1.73	.05	1.78	3.52
Ash.....	Pearl to Orange.....	360	5	1,800	.84	.20	1.04	2.40	.05	2.45	3.59
Beech.....	Bridge to Pearl.....	370	4-6	1,910	1.84	.20	2.04	1.33	.05	1.38	3.42
".....	Valley to Hayward.....	535	3	1,605	1.54	.30	2.21	1.47	.05	1.52	3.73
Bridge.....	Walnut to Beech.....	320	5	1,600	1.54	.20	1.74	1.60	.05	1.70	2.86
Byron.....	Brown avenue to Josselyn.....	1,085	3	3,255	1.23	.20	1.43	2.60	.10	2.70	3.13
Calif road (proposed)	Elm to ist angle south of Elm	450	3	1,350	....	..	....	2.50	.03	2.53	2.53
Canal.....	Central to Granite.....	515	2-3	1,250	3.29	.70	3.99	2.50	.05	2.55	6.24
Cartier east back.....	Sullivan to Schuyler.....	500	3	1,500	2.55	.40	2.95	1.60	.05	1.65	4.60
Cedar.....	Chestnut to Pine.....	410	7	2,870	2.41	.30	2.81	1.73	.05	1.78	4.59
Central, West.....	Canal, easterly.....	290	3-5	1,135	1.41	.40	1.71	.66	.03	.69	2.40
Chestnut.....	Merrimack to Central.....	550	5-6	2,970	3.02	.50	3.52	2.07	.10	2.17	5.69
Cilley road.....	Belmont to Hall.....	600	3	1,800	1.27	.20	1.47	1.20	.05	1.25	2.72
Clarke, West.....	Elm to River road.....	555	5	2,775	1.54	.20	1.74	1.33	.05	1.38	3.12
Concord.....	Elm to Vine.....	340	7	2,380	2.55	.40	2.95	1.60	.05	1.65	4.60
".....	Weston to Highland.....	580	3	1,740	1.61	.30	1.91	1.00	.05	1.05	2.96
Dearborn.....	Summer to Taylor.....	670	4-6	3,220	3.82	.60	4.42	1.40	.05	1.45	5.87
Depot.....	Franklin to Canal.....	480	6	2,880	3.08	.40	3.48	1.87	.05	1.92	5.40
Douglas.....	Dover to West.....	245	6-7	1,565	1.91	.30	2.21	.80	.05	.85	3.06
Eddy road.....	Front, southerly.....	390	4	1,560	1.27	.20	1.47	1.33	.05	1.38	2.85
Front.....	Amoskeag to Black brook.....	2,475	5	12,350	9.91	1.40	11.31	7.27	.24	7.51	18.82
".....	" northerly.....	675	2	1,350	....	..	....	1.32	.05	1.37	1.37
".....	".....	2,475	2	1,350	....	..	....	2.40	.10	2.50	5.98
Glenwood avenue.....	Mystic ave to Woodland ave	1,045	4	4,180	3.08	.40	3.48	2.67	.12	2.79	6.27
Goffstown road.....	Hanscom's to east of Omega	1,140	5	7,400	3.08	.40	3.48	2.67	.12	2.79	6.27
Green.....	Pine to Beech.....	1,140	5	5,760	4.62	.60	5.22	2.53	.10	2.63	7.85
Hall.....	Shasta to Holly avenue.....	1,025	3	3,075	2.55	.40	2.95	1.47	.10	1.57	4.52
Hampshire lane.....	Stark to South of Market.....	250	7	1,750	2.78	...	2.78	2.13	.05	2.18	4.96
".....	Market to Merrimack.....	505	1	3,535	2.41	...	2.41	2.80	.05	2.85	5.26
Hanover.....	Maple to Lincoln.....	650	5	3,250	1.88	.40	2.28	1.00	.05	1.05	3.33
Harrison.....	Linden to Belmont.....	1,190	3-5	4,400	3.10	.80	4.00	3.60	.10	3.70	7.10
".....	Chestnut to Union.....	910	5-6	4,710	3.08	.40	3.48	1.32	.10	1.42	4.90

Harrison	Ash to Oak	670	5-6	3,490	\$2.55	\$	40	\$2.95	\$1.32	\$	10	\$1.43
Harvard	Beech to east of Maple	900	3	2,700	3.08	40	40	3.48	1.87	10	1.97	5.45
Hayward	" " Wilson	1,915	3	2,700	3.76	70	70	4.46	4.00	15	4.15	8.34
Hickland	" " "	1,215	3	3,645	3.09	80	80	5.89	2.33	12	2.45	8.61
Joliet	Kelley to north of Bremer	900	3	2,700	3.08	40	40	3.48	2.40	10	2.50	5.98
Josselyn	Byron to Kennedy	600	3	1,800	1.24	80	80	1.44	80	10	90	13.02
Kelley	Morgan to Piscataquog river	2,260	3	6,780	5.09	80	80	5.89	6.77	36	7.13	18.66
Kennedy	Brown avenue to Josselyn	980	3	2,940	3.22	60	60	3.82	1.76	10	1.86	5.00
Kimball	Kelley to Amory	820	3	2,460	2.55	40	40	2.95	2.00	05	2.05	5.18
Lafayette	" " S. & S. north line	1,010	3	3,030	3.08	40	40	3.48	1.60	10	1.70	5.18
Lake avenue	Union to Beech	1,590	6-7	3,820	2.68	40	40	3.08	1.60	05	1.65	4.73
Laurel	Pine to Chestnut	410	6-7	2,530	2.15	40	40	2.55	3.47	05	3.52	6.07
"	" Beech	1,040	3-5	4,180	....	....	....	....	3.09	10	3.10	3.10
"	Beech to Maple	700	3	2,100	1.27	20	20	1.27	2.00	05	2.05	3.52
"	Milton to Belmont	280	5	1,450	1.07	20	20	1.27	2.25	05	2.30	3.57
"	Chestnut east back to Pine	210	3-4	1,700	1.07	30	30	1.27	.93	03	.96	2.23
"	" " "	550	3	1,650	1.31	30	30	2.21	1.47	05	1.52	3.73
Lincoln	Hanover to Manchester	310	5	1,530	1.31	30	30	2.21	2.40	05	2.45	4.65
Lowell	C. & P. R. to Valley	1,040	3	1,120	1.07	20	20	1.27	1.83	10	1.93	3.20
"	Hall to Belmont	1,410	5	2,050	1.04	20	20	1.24	.80	05	.85	2.09
"	Highland to Mammoth road	1,260	3	3,780	2.15	40	40	2.55	1.40	12	1.52	4.07
"	A to Allen	2,600	5	13,000	....	....	....	....	5.40	24	5.64	5.64
"	Putnam to Conant	1,900	7	13,300	10.22	1.50	1.50	11.72	5.33	20	5.53	17.23
"	Conant to Granite	715	6-7	4,650	4.34	.70	.70	5.04	4.00	.15	4.05	9.09
"	Hayward southerly	900	5	4,500	4.62	.20	.20	4.82	2.27	.12	2.39	7.21
Mammoth road	Valley to Prescott	855	3	2,565	1.61	.30	.30	1.91	1.83	.05	1.88	3.79
Maple	Bridge to Pearl	380	6-7	2,350	1.07	.20	.20	1.27	2.40	.03	2.43	3.70
"	Orange to Myrtle	320	5	1,600	1.07	.20	.20	1.27	2.10	.08	2.18	3.45
"	Prospect to Harrison	320	5-6	1,720	1.91	.30	.30	2.21	.93	.05	.98	3.19
Market	Elm to Franklin	425	7	2,915	4.09	....	....	4.09	.66	.71	.71	3.19
Massabesic	Belmont to north of Spruce	350	6-7	2,275	3.08	.40	.40	3.48	2.20	10	2.30	6.39
Maxwell	Goffstown road, southerly	450	3	1,350	.67	.10	.10	.77	.93	.05	.98	5.80
Maynard avenue	Porter to Huse road	1,445	3	4,335	5.09	.80	.80	5.89	2.40	.05	2.52	8.41
Merrill	Elm to Willow	315	3-4	1,175	1.34	.20	.20	1.54	.80	.05	.85	2.39
"	Chestnut to Pine	410	7	2,870	2.14	.40	.40	2.54	2.30	.03	2.53	5.07
"	Belmont to Milton	290	5	1,450	2.15	.40	.40	2.55	1.32	.03	1.38	3.90
"	Chestnut east back to Pine	285	3	780	1.07	.20	.20	1.27	1.33	.05	1.35	2.65
"	Manchester to Laurel	560	5-6	3,125	3.22	.60	.60	3.82	2.20	.05	2.25	6.07
Milton	Mammoth road to Revere Av	730	6	1,920	1.88	.40	.40	2.28	1.27	.05	1.32	3.00
Oakland avenue	Ash to Maple	320	3	1,230	.94	.20	.20	1.14	2.40	.03	2.43	3.57
Pearl	Piscataquog river to Mast Rd	1,250	3	3,690	5.09	.80	.80	5.89	6.57	.12	6.69	12.98
Pine	Myrtle to Harrison	390	5	2,400	1.54	.20	.20	1.74	1.32	.05	1.37	3.35
"	Harrison to Brook	450	5	2,400	3.08	.40	.40	3.48	1.85	.10	1.95	4.82
"	Auburn to Valley	1,415	6	8,490	5.37	1.00	1.00	6.37	1.32	.10	1.37	8.32
Porter avenue	Amherst to Concord	515	5	2,575	1.54	.20	.20	1.74	4.80	.10	4.90	6.04
Reynolds avenue	Massabesic to Cemetery Brk	270	3	810	4.46	.70	.70	5.16	1.20	.05	1.25	6.41

TABLE No. 29.—*Continued.*  
 COST RECORD—FIELD WORK (Levels for profile), OFFICE WORK (Plans and profiles).

LOCATION.	LIMITS.	Distance.	No. lines.	Total distance.	FIELD WORK.		OFFICE WORK.		Total cost.
					Labor.	Team.	Labor.	Stock.	
River road.....	Thayer to Park avenue.....	2,020	3	6,060	\$1.61	\$0.30	\$1.91	\$0.10	\$1.86
".....	Thayer to south of West Clarke..	...	...	...	...	...	...	.10	1.86
Sagamore.....	Union to Walnut.....	340	5	1,600	2.41	.40	2.81	.05	1.25
Salisbury.....	Hanover to Amherst.....	420	3	1,260	1.57	.20	1.77	.65	2.42
Schuylcr.....	Notre Dame ave. to Cartier.....	320	3	960	2.35	.40	2.95	.05	1.62
Second.....	Bell to Master.....	1,600	5	8,000	3.03	.40	3.43	.10	2.23
Seneca lane.....	Chestnut to Pine.....	400	3	1,200	3.20	...	3.20	.05	2.95
Shasta.....	Beech to Union.....	680	3	2,040	2.55	.40	2.95	.05	2.95
".....	Lincoln to Hall.....	1,135	3	3,405	2.55	.40	2.95	.10	2.93
Springview avenue.....	Somerville, northerly.....	915	3	3,645	2.31	.30	2.61	.05	2.85
Spruce.....	Hall to Belmont.....	393	6-7	2,600	3.68	.40	3.48	.05	5.12
Taggart.....	Golfstown road, southerly.....	460	3	1,350	.67	.10	.77	.80	1.62
Union.....	Prospect to Harrison.....	320	5	1,600	1.91	.30	2.21	.05	1.38
".....	Brook to Blodget.....	370	5-6	1,950	2.56	.40	2.95	.05	2.30
".....	Sagamore to North.....	975	5-6	4,975	2.58	.40	3.08	.10	2.37
Valley.....	Webster to Appleton.....	330	5	1,650	1.27	.20	1.47	.61	.65
Walnut.....	Lincoln to Wilson.....	725	5	3,625	1.07	.20	1.27	.05	2.05
" east back.....	Brook to Blodget.....	370	5	1,850	1.27	.20	1.47	.05	1.62
Washington.....	Elm to Birch.....	370	3	1,110	1.24	.20	1.44	.60	.65
Wayne.....	Main to McGregor.....	335	5-7	1,800	...	...	...	.05	2.22
West.....	Douglas to Granite.....	235	5-6	1,575	1.27	.20	1.47	.05	3.92
Willow.....	Valley to Hayward.....	325	5	1,625	2.55	.40	2.95	.05	1.65
".....	Baker, north and south.....	730	3-5	3,700	1.91	.30	2.21	.03	1.78
Wilson.....	Valley to Bell.....	600	3	1,800	1.34	.20	1.74	...	...
Young.....	Hall to Taylor.....	275	6	1,650	1.34	.20	1.54	.80	.85
		1,030	3	3,030	4.00	1.00	5.00	.10	2.23
		75,865		317,295	\$238.25	\$38.70	\$296.95	\$7.90	\$523.22
							\$218.37	\$236.27	

TABLE No. 30.  
COST RECORD— MISCELLANEOUS ORDERS.

No. of orders.	LOCATION AND DESCRIPTION.	By whom ordered.	FIELD WORK.			OFFICE WORK.			Total cost.	
			Labor.	Team.	Stock.	Total.	Labor.	Stock.		Total.
2	Detail plans for building ordinances	Building inspector.	\$45.09	\$6.94	\$0.87	\$52.90	\$39.34	\$0.36	\$39.70	\$39.70
24	Grades (sidewalk)	Robie Concrete Co.	6.97	1.00	14	8.11				52.90
3	"	Manchester Cement Block & Concrete Co.	119.71	19.55	3.48	142.74				142.74
53	"	Abutters.	17			17				8.11
1	Grades (trial)	Office.			1.44	23.04				23.04
2	Grades	"	16.60	5.00		8.43				8.43
1	Hallsville school.	Alphonse Grenier.	7.33	1.10		40.30	4.66	.56	5.22	45.52
5	Levels (miscellaneous).	Office.	33.00	7.30		28.21				28.21
13	Location (corners).	"	24.57	3.40	.24					
12	Map (directory).	Sampson-Murdock Co.					3.00		3.00	3.00
1	Pine wall at Valley cemetery.	Office	11.76	1.50	.11	13.37	6.52	.24	6.76	6.76
2	Pole locations and track grade.	Manchester St. Ry.	23.19	3.70	.03	26.92				13.37
4	Sewer profiles (preliminary).	Office.	67.93	10.60	.73	79.26	3.04	.05	3.09	30.01
20	Street lines.	"	37.87	5.83	.39	44.09				79.26
10	"	Abutters.			.30	10.21				44.09
14	"	Water-works departm't	8.71	1.20	.69	130.35	12.00	.22	12.22	10.21
3	Street lines and grades	Office.	112.51	17.13	.24	13.53				142.55
30	Surveys (miscellaneous).	Charles A. Bailey.	11.59	1.70		9.04	2.00	.10	2.10	13.53
3	Varney school bank wall.	Office.	7.93	1.10	.01		3.60		3.60	11.14
3	" (cross sections of lot)	"	5.63	.80		6.43				10.03
208			\$540.56	\$87.85	\$8.67	\$637.08	\$74.16	\$1.53	\$75.69	\$712.77



TABLE No. 31.  
COST RECORD—STREET SIGNS.

No. of signs.	Labor.	Team.	Stock.	Total.
10*	\$3 66	\$1.00	\$5.50	\$10.16
10	\$3.66	\$1.00	\$5.50	\$10.16

\* Name of street painted on both sides of sign, sign secured in cast-iron hangers by two nails, and hanger fastened by four nails to trees, wooden electric light poles, wooden trolley poles and telephone poles. (Stock includes one sign, one sign hanger and six nails.)

Average cost of labor per sign for 10 signs.....	\$0 366
“ “ of team “ “ “ “ .....	.100
“ “ of stock “ “ “ “ .....	.550
Total average cost per sign for 10 signs. ....	\$1.016

TABLE No. 32.  
COST RECORD—STREET NUMBERS.

No. of orders.	Labor.	Team.	Stock.	Total.
125	\$18.09	\$1.26	\$23.57	\$42.92
125	\$18.09	\$1.26	\$23.57	\$42.92



TABLE No. 33.  
COST RECORD—CEMETERIES.

No. of orders.	LOCATION.	OFFICE WORK.			FIELD WORK.			Total cost.
		Labor.	Stock.	Total.	Labor.	Team.	Stock.	
13	Pine Grove cemetery.....	\$8.60	\$0.50	\$9.10	\$30.72	\$1.50	\$0.30	\$41.62
13		\$8.60	\$0.50	\$9.10	\$30.72	\$1.50	\$0.30	\$41.62

TABLE No. 34.

## COST RECORD—STREET AND PARK COMMISSIONERS' ORDERS.

No. of orders.	DESCRIPTION OF WORK.	Labor.	Team.	Stock.	Total cost.
22	Building streets (paving lines and grades).....	\$100.33	\$15.00	\$10.06	\$125.39
43	Corner curbing (lines and grades).....	76.16	10.60	5.86	92.62
2	Corning and Conant roads.....	10.39	1.80	.....	12.19
6	Chestnut street (lines and grades).....	39.76	6.50	4.59	50.85
8	City yard (lines and grades).....	41.50	6.90	1.92	50.32
3	Culvert, Brown avenue.....	18.05	2.50	0.14	20.69
2	Culvert, Elm at Baker brook.....	11.55	1.50	.....	13.05
1	Culvert, Putnam street.....	4.62	0.60	.....	5.22
10	Front street (lines and grades).....	61.42	9.40	7.59	78.41
69	Gutter curbing (lines and grades).....	170.20	26.14	13.59	209.93
8	Hampshire lane (lines and grades).....	34.69	1.70	1.96	38.35
5	Lafayette park.....	33.95	5.20	1.78	40.93
5	Main street (lines and grades).....	29.70	4.90	3.77	38.37
17	Market street (lines and grades).....	48.45	6.60	2.90	57.95
17	Miscellaneous surveys and grades.....	38.41	5.70	1.14	45.25
5	Pine street, (lines and grades).....	23.64	3.80	3.83	31.27
10	" " (bank wall).....	33.89	4.80	1.21	39.90
*48	Sewers (lines and grades).....	122.07	18.00	0.06	140.13
281		\$898.78	\$131.64	\$60.40	\$1,090.82

\* The cost of sewer preliminary field and office work, location field and office work, and finished plans is as follows:

DESCRIPTION.	Labor.	Team.	Stock.	Total cost.
Preliminary field work (Table No. 30).....	\$23.19	\$3.70	\$0.03	\$26.92
Preliminary office work (Table No. 30).....	3.04	.....	0.05	3.09
Location field work (Table No. 34).....	122.07	18.00	0.06	140.13
Finished plans (estimated)*.....	\$148.30 100.00	\$21.70 .....	\$0.14 25.00	\$170.14 125.00
	\$248.30	\$21.70	\$25.14	\$295.14

\* This work is done the first of the year following construction.

Expended by the Street and Park Commissioners in constructing sewers, \$12,813.59—(see table No. 23.)

Cost of engineering, \$295.14, or .023 per cent.

TABLE No. 35.  
SUMMARY OF TABLES Nos. 28, 29, 30, 31, 32, 33, AND 34.

NO. OF TABLE.	No. of orders.	FIELD WORK.				OFFICE WORK.			Total cost.
		Labor.	Team.	Stock.	Total.	Labor.	Stock.	Total.	
28.....	42	\$69.16	\$10.80	\$21.71	\$101.67	\$218.37			\$101.67
29.....	208	258.25	38.70	.....	296.95				523.92
30.....	208	540.56	87.85	8.67	637.08	74.16	\$7.90	\$296.27	719.77
31.....	10	3.68	1.00	5.50	10.16		1.53	75.69	10.16
32.....	125	10.42	1.26	.....	11.68	*	23.57	31.24	42.92
33.....	13	30.72	1.50	.30	32.52	8.60	.50	9.10	41.62
34.....	281	898.78	131.64	60.40	1,090.82				1,090.82
	887	\$1,811.55	\$272.75	\$96.53	\$2,180.88	\$368.80	\$33.50	\$342.30	\$2,523.18

To His Honor the Mayor, the board of aldermen, the gentlemen of the common council, and the various committees, with whom in the performance of my duties I have come in contact, I wish to express my appreciation of the assistance and support you have rendered to me during the year.

My acknowledgments are due the gentlemen of the street and park commission for their courtesy, consideration and co-operation in matters in which we were mutually engaged.

SAMUEL J. LORD,  
*Chief Engineer of the City.*

# REPORT OF THE CITY PHYSICIAN.





## REPORT OF THE CITY PHYSICIAN.

*To His Honor the Mayor and City Councils of the City of Manchester,  
N. H.:*

GENTLEMEN:—I herewith submit my annual report as physician for the year 1908:

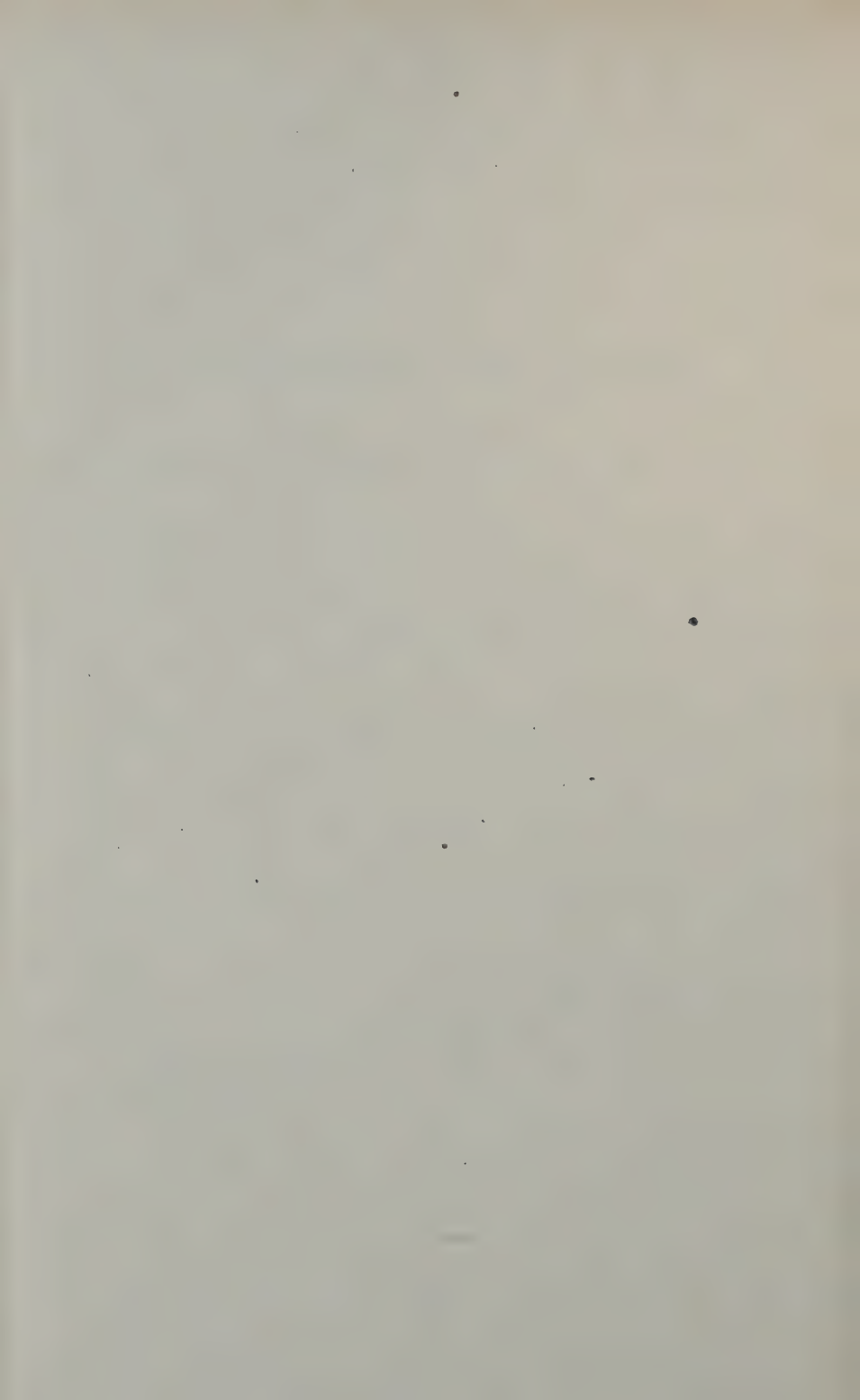
Number of new patients treated, not including those at the isolation hospital, police station, or for the board of health, was 33, necessitating 523 house calls and 187 office calls.

Number of patients per ward as follows:

Ward 1, patients treated .....	5
Ward 2, patients treated .....	0
Ward 3, patients treated .....	4
Ward 4, patients treated .....	2
Ward 5, patients treated .....	7
Ward 6, patients treated .....	0
Ward 7, patients treated .....	2
Ward 8, patients treated .....	0
Ward 9, patients treated .....	9
Ward 10, patients treated .....	4
<hr/>	
Total .....	33
Visits to police station .....	197
Visits to isolation hospital .....	162
Miscellaneous visits for board of health.....	34

Respectfully submitted,

GEORGE L. BASTIAN,  
*City Physician.*



RESOLUTIONS, ORDERS, ORDINANCES.



## RESOLUTIONS, ORDERS, ORDINANCES.

### RESOLUTION Relating to the Final Transfers for the Year 1907.

*Resolved* by the Common Council of the City of Manchester, as follows:

That the city clerk be and hereby is authorized to make the following transfers:

To money unappropriated:

From printing and stationery .....	\$166.50
incidental expenses .....	1,938.55
auditor's department .....	.81
assessors' department .....	34.63
mayor's incidentals .....	5.00
new sewers .....	2,799.11
lighting streets .....	876.60
city library .....	.42
fire-alarm telegraph .....	669.69
equipping and maintenance, ward 10 engine house	1,923.51
hose wagon, Central station .....	442.50
police commission .....	3,551.19
police station .....	13.83
repairs of buildings .....	109.01
new hose house and ward room.....	70.33
Valley cemetery .....	2.82
Merrill cemetery .....	.28
books and stationery .....	30.10
printing and advertising .....	16.93
free text-books .....	6.25
manual training .....	6.31
teacher's salaries .....	2,419.64
evening schools .....	54.70
evening schools, mechanical drawing .....	24.38
shaper, manual training .....	.37
decoration of soldiers' graves.....	1.04
land sold for taxes .....	1,392.50
abatement of taxes .....	17.57
	<hr/>
	\$16,574.57

From money unappropriated:	
To interest .....	\$2,024.28
city hall .....	666.43
city officers' salaries .....	430.98
snow and ice .....	2,799.11
health department .....	743.31
fire department .....	1,632.50
police court .....	54.81
Pine Grove cemetery .....	31.80
Amoskeag cemetery .....	.17
repairs of schoolhouses .....	24.37
furniture and supplies .....	100.84
fuel .....	1,496.22
contingent expenses .....	353.58
care of schoolrooms .....	9.67
paupers off farm .....	2,268.70
city farm .....	88.51
indigent soldiers .....	156.09
free cash in treasury .....	3,693.20
	<hr/>
	\$16,574.57
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Passed January 7, 1908.

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RESOLUTION recommending an Appropriation for Macadamizing Valley Street from Pine to Wilson Streets.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of eight thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of eight thousand dollars to be expended for the grading, paving and macadamizing of Valley street from Pine to Wilson streets; said sum of eight thousand dollars to be known as appropriation for macadamizing Valley street.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for a new Ward Room in Ward Nine.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of seven thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of seven thousand dollars to be used for the purchase of land and the building and equipping of a ward room



thereon in ward nine in said Manchester; said sum of seven thousand dollars to be known as appropriation for a new ward room in ward nine; said sum of seven thousand dollars to be expended as follows: Purchase of land, \$1,000; building and equipping ward room, \$6,000.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for an overhead Bridge over the tracks of the Manchester and Lawrence Railroad north of Elm Avenue.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of two thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of two thousand dollars to be expended for the building of an overhead bridge over the tracks of the Manchester and Lawrence railroad branch of the Boston and Maine railroad about four hundred and fifty feet north of Elm avenue; said sum of two thousand dollars to be known as appropriation for overhead bridge over Manchester and Lawrence railroad north of Elm avenue.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for the purchase of a two-horse combination Hose Wagon for the Fulton Engine House.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of twelve hundred dollars (\$1,200) be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of twelve hundred dollars (\$1,200) to be used for the purchase of a modern two-horse hose wagon equipped with two six-gallon and two three-gallon chemical tanks; said wagon to replace the one-horse reel hose wagon now in use at the Fulton engine house; said sum of twelve hundred dollars (\$1,200) to be known as appropriation for two-horse hose wagon for Fulton engine house.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for the purchase of a two-horse combination hose wagon for the General Stark Engine House.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of twelve hundred dollars (\$1,200) be and is hereby recommended to the board of common council as an appropriation for

the year 1908; said sum of twelve hundred dollars (\$1,200) to be used for the purchase of a modern two-horse hose wagon equipped with two six-gallon and two three-gallon chemical tanks; said wagon to replace the one-horse reel hose wagon now in use at the General Stark engine house; said sum of twelve hundred dollars (\$1,200) to be known as appropriation for two-horse hose wagon for General Stark engine house.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for installing a Public Bathhouse on the Merrimack River above the Amoskeag Falls.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of fifteen hundred dollars (\$1,500) be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of fifteen hundred dollars (\$1,500) to be used for the purchase of a parcel of land and the building and maintenance of a public bathhouse on the Merrimack river above the Amoskeag Falls; said bathhouse to be opened to the public and maintained during the summer months; said sum of fifteen hundred dollars (\$1,500) to be expended as follows: \$500 for the purchase of land, \$1,000 for the building and maintenance of a public bathhouse.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for a Public Comfort Station on Merrimack Common.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, One of the greatest needs in large cities, and one which is fully realized by city authorities, is that of public comfort and public bath stations; and

WHEREAS, With a more general understanding of the value of cleanliness as an agent in the prevention of disease has come the demand for public bathhouses where persons, especially in the winter season, not having the advantage of proper bathing facilities in the home, may be accommodated at either a nominal cost or entirely free; and

WHEREAS, The public comfort situate in the rear of the city hall building is unsightly, in need of extensive repairs, and a disgrace to the city of Manchester; therefore be it

*Resolved*, That the board of mayor and aldermen hereby record its opinion that the time has arrived when the city of Manchester should follow the example of Lawrence, Worcester, and other cities, and take

steps to erect a modern public comfort station; and that the proper place for the location of said station is on the Merrimack common at, or near, the head of Pleasant street; therefore be it

*Resolved*, That we heartily recommend to the board of common council a special appropriation of eight thousand dollars for the year 1908; said appropriation to be expended for building a public comfort station on Merrimack common and equipping the same.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for the Alteration of the General Stark Engine House.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of one thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of one thousand dollars to be used for the alteration of the General Stark engine house in the event of the board of common council passing an appropriation for the purchase of a two-horse combination hose wagon for the General Stark engine house; said sum of one thousand dollars to be known as appropriation for altering the General Stark engine house.

Passed January 27, 1908.

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RESOLUTION recommending an Appropriation for Trimming Trees.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The city of Manchester does not receive full benefit of street lighting by reason of the condition of the branches of many trees being such as to prevent the natural distribution of the lights; therefore be it.

*Resolved*, That the sum of five thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of five thousand dollars to be expended by the board of street and park commissioners in trimming, cutting and removing such trees as in its opinion is necessary in order that the city of Manchester may receive full benefit of the money expended for street lighting; said sum of five thousand dollars to be known as appropriation for trimming trees.

Passed January 27, 1908.

RESOLUTION relating to the Securities in the Custody of the Trustees of the Sinking Fund and the Cemetery Fund.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, There is in the custody of the trustees of the sinking fund some over five hundred thousand dollars (\$500,000) of negotiable securities; and

WHEREAS, There is in the custody of the trustees of the cemetery fund some over seventy thousand dollars (\$70,000) of negotiable securities; therefore be it

*Resolved*, That the board of mayor and aldermen hereby order said board of trustees to have said securities registered in the office of the city clerk; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed February 4, 1908.

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RESOLUTION recommending the Installation of a Volunteer Fire Company in Goffe's Falls.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, There is no fire company located in Goffe's Falls at the present time; and

WHEREAS, For the better protection of life and property in said locality it is necessary that a fire company be located therein; therefore be it

*Resolved*, That it is hereby recommended to the board of engineers of the fire department of said Manchester that a volunteer fire company be installed and located in Goffe's Falls, and that a hose reel be furnished it from the apparatus owned by the fire department of said Manchester.

Passed February 4, 1908.

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RESOLUTION recommending an Appropriation for the purchase of a Combination Drinking Fountain to be located in East Manchester south of Valley Street.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of two hundred dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of two hundred dollars to be expended by the board of street and park commissioners for the purchase of a combination drinking fountain to be located in East Manchester, south of Valley street; said location to be in the discretion of the said commissioners.

Passed February 4, 1908.



RESOLUTION recommending an Appropriation for the purchase of a Drinking Fountain to be located at the corner of Central and Elm Streets.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of two hundred dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of two hundred dollars to be expended by the board of street and park commissioners for the purchase of a drinking fountain with cooler attachment; said fountain to be located at the corner of Central and Elm streets in said Manchester.

Passed February 4, 1908.

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RESOLUTION recommending an Appropriation for the Purchase of Land in Ward Eight and the Building and Equipping of an Engine House Thereon.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of fifteen thousand dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of fifteen thousand dollars to be expended for the purchase of land south of Piscataquog river in ward eight in said Manchester and the building and equipping of an engine house thereon.

Passed February 4, 1908.

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RESOLUTION making a Temporary Loan of Three Hundred Thousand Dollars.

*Resolved* by the Board of Common Council of the City of Manchester, as follows:

That for the purpose of paying such claims against the city as may fall due before the twenty-second day of December, nineteen hundred and eight, the city treasurer be and is hereby authorized to make such temporary loans from time to time for the use of the city of sums not exceeding the amount of three hundred thousand dollars, being in anticipation of the taxes of the present year; giving for the same the notes of the city signed by the city treasurer and countersigned by the mayor.

Passed February 19, 1908.

RESOLUTION relative to the Exemption from Taxation of a certain Manufacturing Establishment proposed to be erected by the Bachelder-Worcester Company, and the Capital to be used in Operating the same.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It is proved by section 11, chapter 55, of the Public Statutes of New Hampshire, that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town;" and

WHEREAS, The said Bachelder-Worcester Company proposes to purchase land and erect thereon a manufacturing establishment and operate the same with machinery for manufacturing purposes; therefore be it

*Resolved*, That the land to be acquired by the said Bachelder-Worcester Company and the manufacturing establishment proposed to be erected thereon, and the capital to be used in operating the same, and the business connected therewith, by them, be exempted from taxation for a period of ten years from the first day of April, 1908; provided, a box manufacturing industry is conducted on said premises during said period, and is in operation on the first day of July, 1908. Otherwise this resolution shall not be effective; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed March 3, 1908.

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RESOLUTION recommending an Appropriation for the Printing and Binding of the revised City Ordinances.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of five hundred dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of five hundred dollars to be expended for the printing and binding of the ordinances of the city of Manchester, as revised by the board of mayor and aldermen January 17, 1908.

Passed March 3, 1908.



RESOLUTION recommending an Appropriation for the Purchase of an Additional Tract of Land for the Somerville Street Engine House.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the sum of five hundred dollars be and is hereby recommended to the board of common council as an appropriation for the year 1908; said sum of five hundred dollars to be expended in the purchase of a tract of land for the Somerville street engine house; said land to be situate southerly and adjoining the land of said engine house and to be used for fire purposes.

Passed March 3, 1908.

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RESOLUTION authorizing the Mayor and Committee on City Farm to lease the remainder of the City Farm, so called, to the Board of Street and Park Commissioners.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the mayor and committee on city farm be and are hereby authorized and empowered to lease the remainder of the city farm, so called, in said Manchester, to the board of street and park commissioners of said Manchester at a price to be mutually agreed upon by the said mayor, committee and commissioners; said lease to be for a term of ten years and to date from November 7, 1907.

Passed March 3, 1908.

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RESOLUTION relating to the Protection of the Grade Crossings on Canal Street over the tracks of the Boston and Maine Railroad.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The report of the railroad commissioners for the state of New Hampshire under date of November 20, 1907, upon the death of Mrs. Harriet Chaffee, ends as follows: "The crossings from Canal street over the railroad and canal into the factory yards were originally constructed and have since been maintained by the manufacturing corporations. They are used mainly by the operatives, of whom at least five thousand pass over them on an average of about four times daily each, and by the corporation teams, but they have been generally opened to the public. Whether they have by use become public highways is a legal question which we cannot determine, and whether they have or not it is beyond our jurisdiction to prescribe what protection they should have until the matter comes to us by petition. If they are public highways, the mayor and aldermen

of Manchester may require the railroad to erect and maintain gates or station flagmen, which requirement is binding subject to an appeal to this board. There is an immense volume of traffic upon the railroad through Manchester, and it happens necessarily that a number of trains are running by the factory gates in the morning, at noon, and at night, when the operatives are passing over the tracks. Since 1894 twelve people have been killed upon these crossings, seven of these twelve at the foot of Mechanic street, two at Dean street, and two at the Amoskeag gate, at none of which is there protection, as there should be in our judgment;" and

WHEREAS, It is the duty of said railroad commissioners to safeguard the lives of the public by protecting hazardous grade crossings which are a constant menace to all who use them; and

WHEREAS, The said railroad commissioners can take no legal action upon such crossings until the matter has been properly brought before them by petition; therefore be it

*Resolved*, That in the opinion of the board of mayor and aldermen of the city of Manchester, the grade crossings at Canal street over the tracks of the Boston and Maine Railroad are a menace to the lives of all persons having occasion to use them and should be protected by gates similar to the crossing at Granite street; and be it further

*Resolved*, That the city solicitor be and is hereby instructed to petition the railroad commissioners setting forth the facts in the matter and requesting a hearing upon the same; and that the mayor and city solicitor be and are hereby appointed to represent the board of mayor and aldermen of the city of Manchester at the time of hearing; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed March 3, 1908.

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RESOLUTION ordering the removal of a tree at the corner of Willow and Merrill Streets by the Board of Street and Park Commissioners.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The health of certain residents of the city of Manchester is endangered by reason of a large tree standing in Willow street near the corner of Merrill street shutting out the sunlight; and

WHEREAS, A physician duly registered by the state of New Hampshire has ordered the removal of the said tree in order that the health of the said residents may be improved; therefore be it

*Resolved*, That the board of street and park commissioners be and is hereby ordered to remove the large tree standing in the public

highway known as Willow street; said tree being situate at or near the corner of Willow and Merrill streets in said Manchester.

Passed April 7, 1908.

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RESOLUTION relating to Interest on Deposits of the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the moneys of the city of Manchester be deposited in such bank or banks in said city as shall pay the largest rate of interest to said city of Manchester upon daily balances in said bank or banks from the first day of May, 1908, to the first day of May, 1909; and that the city treasurer be and hereby is instructed to advertise for bids from the banks of the city of Manchester by sending to each of said banks a copy of this resolution; the city of Manchester, by its agent, the treasurer of said city, reserving the right to reject any and all bids and call for such other bids as may be necessary to carry out the intent of this resolution; and be it further

*Resolved*, That the mayor and the treasurer of said city of Manchester are hereby authorized and empowered to accept such bid or bids as will give the city of Manchester the largest rate of interest upon the daily balances on deposits of the moneys of said city of Manchester in said bank or banks from the first day of May, 1908, to the first day of May, 1909; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed April 7, 1908.

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RESOLUTION relating to Lighting the City of Manchester with Electricity.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The contract to light the streets, roads, bridges, parks, and all public places of the city of Manchester with electricity expires on the twenty-third day of May, 1908; therefore be it

*Resolved*, That the mayor and standing committee on lighting streets be and are hereby instructed to investigate the matter of lighting said streets, roads, bridges, parks, and all public places of said city of Manchester on and after said date and report the result of their investigation to the board of mayor and aldermen at their earliest convenience; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed April 7, 1908.

RESOLUTION ordering the Boston & Maine Railroad to protect the railroad crossings at Dean, Mechanic, Middle, and Langdon Streets, so called, in the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The railroad crossings of the Boston & Maine Railroad at the foot of Dean, Mechanic, Middle, and Langdon streets are without any protection to the public, no gates being maintained or flagmen stationed thereat; and

WHEREAS, There is nothing done to insure the safety of the thousands of people who are compelled to cross the tracks of the said railroad, at said crossings, four times daily to and from their work in the mills, beyond the warning whistle and bell; and

WHEREAS, Twelve lives have been lost at these crossings since 1894, and a conservative number of employees whose lives are daily put in jeopardy by the many passenger and freight trains traveling both north and south is from six to eight thousand; and

WHEREAS, Dean, Mechanic, Middle, and Langdon streets with their continuations across the tracks of the said railroad to the gates of the mills on the west side of the canal on Canal street, in the belief of the board of mayor and aldermen, have become public highways by twenty and more years' public use; therefore be it

*Resolved*, By the said board of mayor and aldermen that the said Boston & Maine Railroad be and is hereby ordered to protect the said crossings by erecting and maintaining gates across the said highways or by stationing flagmen at the above named crossings.

Passed April 7, 1908.

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RESOLUTION relating to a side track of the Portsmouth Branch of the Boston & Maine Railroad across Lincoln Street, so called, in the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That for the accommodation of the board of street and park commissioners, a board duly created by an act of the legislature of the state of New Hampshire, and doing business in the city of Manchester, leave be and it hereby is granted to the Boston & Maine railroad to construct a side track in the Portsmouth branch from a point in the easterly line of Lincoln street about twenty (20) feet south of the southerly line of Valley street thence across Lincoln street to a point in the westerly line of Lincoln street about twenty (20) or thirty-five (35) feet south of the southerly line of Valley street, as shown on plan hereto annexed; and be it further



*Resolved*, That the said plan is hereby made a part of this resolution; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed May 5, 1908.

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RESOLUTION authorizing the Mayor and Chairman of the Committee on Lighting Streets to execute an Electric Light Contract in behalf of the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the mayor and chairman of the committee on lighting streets be and are hereby authorized to execute the contract between the city of Manchester and the Manchester Traction, Light and Power Company of said Manchester presented this day to the board of mayor and aldermen by the committee on lighting streets; which contract provides for the lighting of the streets, roads, bridges, and other public places of said city for a term of five years from May 23, 1908; said contract to be signed by the mayor and chairman of the committee on lighting streets for said city after it shall have been adopted by the board of mayor and aldermen; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed May 13, 1908.

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RESOLUTION relating to the office of the Inspector of Buildings of the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Almighty God has seen fit to remove from public office Edwin S. Foster, inspector of buildings of the city of Manchester; and

WHEREAS, The accommodation of the public requires that the said office be accessible at all times to persons having business therewith; therefore be it

*Resolved*, That the chief engineer of the city of Manchester be and is hereby granted authority to discharge the duties of said office until such time as the vacancy caused by the death of Mr. Foster is filled in accordance with law; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed July 7, 1908.

RESOLUTION authorizing the Subtrustees on Pine Grove Cemetery to purchase a certain tract of Land adjoining the Pine Grove Cemetery of the heirs of Anna C. Smith.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the subtrustees of the Pine Grove cemetery be and are authorized and empowered for and in the name and behalf of the city of Manchester to purchase from the heirs of Anna C. Smith the land owned by them adjoining Pine Grove cemetery on the north, and lying between the cemetery and the southerly line of Mitchell street produced in a westerly direction; the same to be paid for December 31, 1908, from the receipts from the Pine Grove cemetery for the current year.

Passed July 7, 1908.

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RESOLUTIONS relating to the Sewers emptying into the Piscataquog River under the stone arch bridge on South Main Street.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The condition of the sewers emptying into the Piscataquog river, from its north and south banks, under the stone arch bridge on South Main street, has rendered the said sewers a public nuisance, by reason of the low water now existing in said river; and

WHEREAS, The present condition of said sewers is a detriment to the public health, by reason of the terminals not being carried into the water of said river; therefore be it

*Resolved*, That it is hereby recommended to the board of street and park commissioners that the said sewers be extended into the Piscataquog river at low water mark, thereby abating the said nuisance and protecting the health of the community; and be it further

*Resolved*, That the board of mayor and aldermen act as a committee of the whole and investigate the existing conditions Thursday, August 6, 1908, at ten o'clock in the forenoon; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed August 4, 1908.

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RESOLUTION relating to the Death of Edwin S. Foster, Inspector of Buildings of the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Our Heavenly Father has removed from public office Edwin S. Foster, inspector of buildings of the city of Manchester; therefore be it



*Resolved*, That in his death we have lost an official who was courteous to all, painstaking in his work, and who at all times had the best interest of the city of Manchester at heart; and be it further

*Resolved*, That in his death we have lost a friend, and the city of Manchester a faithful and devoted official; and be it further

*Resolved*, That these resolutions be made a part of our records, and a copy thereof be sent to the stricken widow and children with our deep and heartfelt sympathy; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed August 4, 1908.

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RESOLUTION relating to the Leasing from the Amoskeag Manufacturing Company of a certain tract of Land situate in the City of Manchester; said tract of land to be known as Parker Common.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the mayor be and hereby is authorized and empowered to execute a lease for a certain tract of land owned by the Amoskeag Manufacturing Company situate in the city of Manchester and bounded as follows: Northerly by Brook street, easterly by Oak street, southerly by Harrison street, and westerly by Maple street; and be it further

*Resolved*, That the said tract of land be set aside for a public park or playground for the use of the citizens of said Manchester and that the same, during the continuation of said lease, shall be known as Parker common; and be it further

*Resolved*, That the accompanying blank lease be and is hereby made a part of this resolution; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed August 4, 1908.

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RESOLUTION relating to opening up that part of Lake Massabesic known as the "Back Pond" to the use of the Inhabitants of the City of Manchester.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, That part of Lake Massabesic known as the "back pond" contains hundreds of acres of bog land and is a drain for that section of the city of Manchester known as the "Eaton Heights"; and

WHEREAS, The water of said pond is unfit for a water supply and could be turned into a summer paradise for the benefit and comfort of those citizens who are not financially able to go to the beaches and mountains; therefore be it

*Resolved*, That a special committee of three be appointed to confer with the board of water commissioners for the purpose of devising means whereby the city's pumping station at Lake Massabesic can be removed from the back pond to the front pond, and the back pond opened to the use of the inhabitants of said Manchester; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed September 1, 1908.

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RESOLUTION relating to the Exemption from Taxation of a certain Tract of Land and Building located thereon, owned by Roger G. Sullivan and situate at the Corner of West Central and Canal Streets, so called, in Manchester, N. H.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town"; and

WHEREAS, Roger G. Sullivan has purchased land at the corner of West Central and Canal streets in said Manchester and erected thereon a building for the manufacture of cigars; therefore be it

*Resolved*, That the land acquired by the said Roger G. Sullivan and the building erected thereon be exempted from taxation for a period of ten years from the first day of April, 1909; provided a cigar industry is conducted on said premises during said period and is in operation on the first day of April, 1909; otherwise this resolution shall not be effective; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed November 10, 1908.

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RESOLUTION relative to the Exemption from Taxation of certain Manufacturing Establishments Proposed to be conducted by W. H. McElwain Company.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It is provided by the Public Statutes of the state of New Hampshire that cities and towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment

proposed to be erected or put in operation therein and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town; and

WHEREAS, The W. H. McElwain Company, a corporation duly established by law, and now carrying on the manufacture of boots and shoes in the city of Manchester in factory buildings owned by the East Side Company, the Cohas Building Company and the Derryfield Realty Company, proposes to put into operation in the city of Manchester, in the building formerly occupied by the Eureka Shoe Company and known as the Eureka shoe factory building, situate on Lincoln street at the corner of Silver street, and in the building owned and now occupied by the Kimball Carriage Company, situate on Lincoln street at the corner of Silver street, manufacturing establishments for the manufacture of boots and shoes and the different parts of boots and shoes and various shoe findings and supplies used in connection with the manufacture of boots and shoes, and for that purpose proposes to bring to Manchester and use additional machinery, stock in trade, capital, and other property, none of which has been exempted from taxation by any town or city in the state of New Hampshire; now, therefore, be it

*Resolved*, That all machinery, stock in trade, and other property which may be owned or used by the W. H. McElwain Company in any manufacturing establishments which may be put in operation by it in the city of Manchester in said Eureka shoe factory building and said Kimball Carriage Company building, for the manufacture of boots and shoes and the different parts of boots and shoes and various shoe findings and supplies used in connection with the manufacture of boots and shoes, and the capital to be used in operating the same, and the business connected therewith, be exempted from taxation for a period of ten years from the first day of November, 1908, provided that this exemption shall not apply to any property which may have previously been exempted from taxation by any town or city in the state of New Hampshire.

*Resolved further*, That this resolution shall take effect and be in force from and after its passage.

Passed November 10, 1908.

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RESOLUTION relative to the Exemption from Taxation of a Certain Manufacturing Establishment proposed to be erected by the Amoskeag Manufacturing Company.

*Resolved* by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It is provided by the laws of New Hampshire that "towns may by vote exempt from taxation for a term not exceeding ten

years any manufacturing establishment proposed to be erected or put in operation therein and the capital to be used in operating the same, unless said establishment has been previously exempted from taxation by some town" and

WHEREAS, The Amoskeag Manufacturing Company proposes to erect one or more mills and equip and operate the same with machinery for and in connection with the manufacture of cloth, and for those purposes proposes to expend at least one million dollars during the years 1909 and 1910; now, therefore,

*Be It Resolved*, That any mill which may be erected by the Amoskeag Manufacturing Company during the years 1909 and 1910, and the machinery which may be put and used therein and the capital to be used in operating the same be and the same hereby are exempted from taxation for a period of ten years from the first day of December, 1908; and be it further

*Resolved*, That this resolution shall take effect upon its passage.

Passed December 1, 1908.

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AN ORDER to purchase Seven Horses for the Fire Department.

*Ordered*, That the mayor and committee on fire department be and are hereby authorized to purchase seven horses for use in the fire department of said Manchester; the expense thereof to be charged to the appropriation for fire department.

Passed January 27, 1908.

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AN ORDER to print the Sixty-second Annual Report of the Receipts and Expenditures of the City of Manchester.

*Ordered*, That the committee on finance be and is hereby authorized to procure for the use of the inhabitants of said city the printing of the sixty-second annual report of the receipts and expenditures of the city of Manchester, including the reports of the city auditor, the school board and superintendent of schools, superintendent of water works, water commissioners, engineer of fire department, overseers of the poor, trustees, librarian and treasurer of the city library, committee on cemeteries, committee on city farm, city physician, city solicitor, chief engineer, street and park commissioners, and such other matter relative to city affairs as said finance committee may direct; the expense thereof to be charged to the appropriation for printing and stationery.

Passed January 27, 1908.



AN ORDER to purchase Hay, Straw and Grain for use in the Fire Department.

*Ordered*, That the mayor and standing committee on fire department be and are hereby instructed to purchase all hay, straw and grain used in the fire department of the city of Manchester for the ensuing year; the expense thereof to be charged to the appropriation for fire department.

Passed January 27, 1908.

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AN ORDER relating to Repairs on Public Buildings.

*Ordered*, That the mayor and committee on lands and buildings be and are hereby authorized and empowered to make such necessary repairs in and upon the public buildings of said city as shall not exceed the appropriation for that purpose; the expense thereof to be charged to the appropriation for repairs on public buildings.

Passed January 27, 1908.

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AN ORDER to erect a Fire-Alarm Box.

*Ordered*, That the committee on fire department be and is hereby authorized and empowered to erect a fire-alarm box with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for fire department; said box to be located as follows: Corner of Boynton and Allen streets.

Passed March 3, 1908.

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AN ORDER to install a Welsbach Gas Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect a Welsbach gas light on Appleton street between Elm and Chestnut streets; the expense thereof to be charged to the appropriation for lighting streets.

Passed March 3, 1908.

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AN ORDER to build an Addition to the Hallsville Schoolhouse.

*Ordered*, That the mayor and committee on lands and buildings be and are hereby authorized, as the agent of the board of mayor and aldermen, to build an addition to the Hallsville schoolhouse, situate on the northeast corner of Jewett and Hayward streets in said Manchester; said mayor and committee on lands and buildings, as

the agent of the board of mayor and aldermen, are hereby authorized to do any and everything necessary to complete and equip said addition; the expense thereof to be charged to the appropriation for addition to Hallsville school; said mayor and committee on lands and buildings, as the agent of the board of mayor and aldermen, to act in conjunction with a like committee of four from the school board of said city of Manchester, as prescribed by section 3, chapter 65 of the Sessions Laws of 1897.

Passed May 1, 1908.

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AN ORDER to purchase Two new two-horse combination Hose Wagons, Horses and Harnesses for use in the Fire Department.

*Ordered*, That the mayor and committee on fire department be and are hereby authorized and empowered to purchase two new two-horse combination hose wagons, horses and harnesses for use in the fire department of said Manchester; one of said wagons to be used at the General Stark engine-house and the other at the Fulton engine-house; the expense thereof not to exceed the sum of twenty-four hundred dollars; the expense thereof to be charged to the appropriations for combination hose wagons, General Stark engine-house and Fulton engine-house.

Passed May 1, 1908.

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AN ORDER to erect Two Electric Arc Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect two electric arc lights with proper fixtures for maintaining the same; the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows: Corner of Myrtle and Belmont streets, as petitioned for by Oscar Johnson; Omega street, opposite No. 85, as petitioned for by W. H. Maxwell.

Passed May 1, 1908.

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AN ORDER to purchase Four Fire Nets for use in the Fire Department.

*Ordered*, That the mayor and committee on fire department be and are hereby authorized and empowered to purchase four fire nets for use in the fire department of said Manchester; the expense thereof to be charged to the appropriation for fire department.

Passed May 1, 1908.



AN ORDER to erect a Fire-Alarm Box at the corner of Belmont and Grove Streets.

*Ordered*, That the committee on fire department be and is hereby authorized and empowered to erect a fire-alarm box at the corner of Belmont and Grove streets with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for fire department.

Passed May 1, 1908.

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AN ORDER to erect an Electric Arc Light at the southwest corner of Franklin and Middle Streets.

*Ordered*, That the committee on lighting streets be and hereby is authorized to erect an electric arc light with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: At the southwest corner of Franklin and Middle streets, as petitioned for by E. E. Grant, and others.

Passed May 13, 1908.

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AN ORDER to erect Three Electric Arc Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect three electric arc lights with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows: On Arah street, between Union street and Hooksett road, as petitioned for by Damase Gagnon, *et al.*; at the corner of Hayward and Union streets, as petitioned for by J. P. Russell, *et al.*; at the corner of Hall and Harvard streets, as petitioned for by G. A. Guertin, *et al.*

Passed July 7, 1908.

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AN ORDER to erect Four Welsbach Gas-Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect four Welsbach gas-lights with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets, said lights to be located as follows: On Willow street in front of the residence of Dolphis Laro, as petitioned for by Telesphore F. Cote, *et al.*; at the corner of Canal and West Brook streets, as petitioned for by William F. Grauer, *et al.*; on Merrimack street, midway between Beech and Maple streets, as petitioned for by Samuel Russell, *et al.*; on

Laurel street, midway between Beacon and Cass streets, in place of an electric light petitioned for by G. Larson, *et al.*

Passed July 7, 1908.

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AN ORDER to build a certain Sewer in Clay Street from the sewer line of Lincoln Street to the sewer line of Wilson Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Lincoln street in Clay street and thence in an easterly direction to the sewer line of Wilson street in Clay street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed July 21, 1908.

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AN ORDER to build a certain Sewer in Lincoln Street from the sewer line of Silver Street to the sewer line of Clay Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Silver street and thence in a southerly direction to the sewer line of Clay street in Lincoln street; and the expense thereof be charged to the appropriation for new sewers.

Passed July 21, 1908.

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AN ORDER to build a certain Sewer in Clay Street from the sewer line of Taylor Street to the sewer line of Cypress Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Taylor street and thence in an easterly direction to the sewer line of Cypress street in Clay street; and the expense thereof be charged to the appropriation for new sewers.

Passed July 21, 1908.

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AN ORDER to build a certain Sewer in Knowlton Street from Hayward Street 492 feet southerly.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Hayward street and thence in a southerly direction 492 feet in Knowlton street; and the expense thereof be charged to the appropriation for new sewers.

Passed July 21, 1908.

## AN ORDER to install a Welsbach Gas-Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install a Welsbach gas-light with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: On the Proctor road in front of the Sturtevant residence, as petitioned for by Mrs. A. L. Sturtevant, *et al.*

Passed July 21, 1908.

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## AN ORDER to erect an Electric Arc Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect an electric arc light with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: Corner of Jewett and Massabesic streets, as petitioned for by W. H. Mathews, *et al.*

Passed July 21, 1908.

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## AN ORDER to erect Six Electric Arc Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect six electric arc lights with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows: Corner of Cilley road and Jewett street, as petitioned for by Curtis A. Warren, *et al.*; corner of Belmont and East High streets, as petitioned for by John H. Gleason, *et al.*; southeast corner of Sagamore and Oak streets, as petitioned for by Geo. E. Trudel, *et al.*; corner of Alfred and Amherst streets, as petitioned for by David Wadsworth, *et al.*; on Dunbarton road near residence of James F. McDuffee, as petitioned for by James F. McDuffee, *et al.*; junction of Maple and Willow streets, as petitioned for by John Leahey, *et al.*

Passed July 21, 1908.

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## AN ORDER to erect a Welsbach Gasoline Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized to erect a Welsbach gasoline light with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: At the corner of Broadway avenue and Sherburne street, as petitioned for by Hugh J. Kelley, *et al.*

Passed September 1, 1908.

AN ORDER to erect a Welsbach Gas Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect a Welsbach gas light with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: At the end of William street, as petitioned for by James F. Baldwin, *et al.*

Passed September 25, 1908.

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AN ORDER to install One Electric Arc Light.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install one electric arc light with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said light to be located as follows: At the corner of Mast and Brock streets, as petitioned for by C. A. Brooks, *et al.*

Passed September 25, 1908.

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AN ORDER to install Two Incandescent Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install two incandescent lights with proper fixtures for maintaining the same; the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows: Corner of Barry avenue and Spruce south back street; corner of Barry avenue and Lake avenue south back.

Passed October 26, 1908.

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AN ORDER to install Three Welsbach Gas Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install three Welsbach gas lights with proper fixtures for maintaining the same; the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows: On Londonderry turnpike between N. B. Reed's and Bald Hill road (two lights), as petitioned for by Charles A. Foster, *et al.*; on Cohas avenue near residence of Frank Marden, as petitioned for by the board of water commissioners.

Passed October 26, 1908.

## AN ORDER to install Five Electric Arc Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to install five electric arc lights with proper fixtures for maintaining the same; the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows: Corner of Smyth road and Webster street, as petitioned for by Henry Fiske, *et al.*; corner of Amory and Cartier streets, as petitioned for by P. Hevey, rector, *et al.*; on Eddy road midway between the Mullen residence and the Robinson slaughtering barn, as petitioned for by J. H. Hamer, *et al.*; on Nicolet lane midway between Main and McGregor streets, as petitioned for by Clement Beaudet, *et al.*; corner of Maple and Hayward streets, as petitioned for by John McCarthy, *et al.*

Passed October 26, 1908.

---

AN ORDER to build a certain Sewer in Alsace Street from the sewer line of Kelley Street to the sewer line of Bremer Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Kelley street and thence in a northerly direction to the sewer line of Bremer street in Alsace street; and the expense thereof be charged to the appropriation for new sewers.

. Passed November 27, 1908.

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AN ORDER to build a certain Sewer in Clay Street from the sewer line of Union Street to the sewer line of Beech Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Union street and thence in an easterly direction to the sewer line of Beech street in Clay street; and the expense thereof be charged to the appropriation for new sewers.

Passed November 27, 1908.

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AN ORDER to build a certain Sewer in Pine East Back Street from the sewer line of Grove South Back Street to the sewer line of Bell South Back Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing



at the sewer line of Grove south back street and thence in a southerly direction to the sewer line of Bell south back street in Pine east back street; and the expense thereof be charged to the appropriation for new sewers.

Passed November 27, 1908.

---

AN ORDER to build a certain Sewer in Union Street from the sewer line of Plummer Street to the sewer line of Clay Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Plummer street and thence in a southerly direction to the sewer line of Clay street in Union street; and the expense thereof be charged to the appropriation for new sewers.

Passed November 27, 1908.

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AN ORDER to build a certain Sewer in Mammoth Road from No. 155 in a southerly direction to Young Street.

*Ordered*, That the board of street and park commissioners be and is hereby authorized to build a certain sewer as follows: Commencing at No. 155 Mammoth road and thence in a southerly direction to Young street in Mammoth road; and the expense thereof be charged to the appropriation for new sewers.

Passed November 27, 1908.

---

AN ORDER to erect Three Electric Arc Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect three electric arc lights with proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows: Corner of West Central and Canal streets, as petitioned for by F. W. McKinley, *et al.*; corner of Cartier and Conant streets, as petitioned for by Peter J. Haggerty, *et al.*; on Elm street, about three hundred feet south of Baker street, as petitioned for by F. X. Lyons.

Passed November 27, 1908.

---

AN ORDER to erect Two Welsbach Gas-Lights.

*Ordered*, That the committee on lighting streets be and is hereby authorized and empowered to erect two Welsbach gas-lights with



proper fixtures for maintaining the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows: On Manchester street, about midway between Beech and Maple streets, as petitioned for by A. O. Dalpey, *et al.*; on Merrimack street, about midway between Wilson and Lincoln streets, as petitioned for by D. N. Gove, *et al.*

Passed November 27, 1908.

---

AN ORDINANCE in amendment of Chapter 14 of the Laws and Ordinances of the City of Manchester, relating to the use of Hollow Concrete Building-Blocks, so as to allow Daniel Annis to build a certain Dwelling-House on the Candia Road.

*Be It Ordained* by the Board of Mayor and Aldermen of the City of Manchester as follows:

Amend chapter 14 of the city laws and ordinances of said city relating to hollow concrete building-blocks, so as to allow Daniel Annis of said Manchester to build a dwelling-house at about No. 800 Candia Road, so called, in said Manchester; provided, that said house is built in accordance to the terms of his petition presented the board of mayor and aldermen of said Manchester, April 7, 1908, and the rules of the office of inspector of buildings of said Manchester; and be it further

*Ordained*, That this ordinance shall take effect upon its passage.

The intent of this ordinance is to amend the ordinance of the city of Manchester relating to the use of hollow concrete building-blocks for the above-named purpose and for no other purpose whatsoever.

Passed May 13, 1908.

---

AN ORDINANCE in amendment of Sections 1, 12, 16, 20 and 21 of Chapter 14 of the Laws and Ordinances of the City of Manchester, relating to the Building Department.

*Be It Ordained* by the Board of Mayor and Aldermen of the City of Manchester as follows:

SECTION 1. Amend section 1 of chapter 14 of the Laws and Ordinances of the city of Manchester in definition of "block of dwellings" by striking out the whole of said definition and inserting in place thereof the following: "Block of dwellings means a series of four or more houses used mainly for dwellings arranged horizontally and consisting of two or more stories in height."

Amend section 12 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the twelfth line thereof, after the word "every," by inserting the word "two."

Amend section 12 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the fifteenth line thereof, after the word "openings," by adding the words "unless same are authorized by the inspector of buildings, and external walls of any buildings hereafter erected within two feet of the line of adjoining lot shall be built of brick."

Amend section 12 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the twenty-fifth line thereof, after the word "height," by adding the following words: "But where floor or roof timbers make into party walls, the walls shall be twelve inches thick their entire height."

Amend section 12 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the twenty-sixth line thereof, after the word "walls," by striking out the following words: "Where eight-inch party walls are used, the floor joists or beams shall be separated or spaced, so that there shall not be less than four inches of brick work between said joists or beams."

Amend section 16 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the eleventh line thereof, after the word "tinplate," by adding the following words: "or the pipes thoroughly covered with asbestos."

Amend section 20 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the sixth line thereof, after the word "trussed," by striking out the following words: "two by four-inch sills and plates are to be placed at all partitions" and inserting in place thereof the following words: "sills and caps not less than two inches thick and the full width of the studding shall be placed in all partitions."

Amend section 21 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the first line thereof, after the word "column," by inserting the words "or girder."

Amend section 21 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the fifth line thereof, after the word "materials," by striking out the following words: "Inside the fire limits."

Amend section 21 of chapter 14 of the Laws and Ordinances of the City of Manchester, in the eighth line thereof, after the word "materials," by striking out the whole of the remainder of said section and inserting in place thereof the following words: "Stud bearing partitions and outside walls shall be provided with fire stops at each floor, including all attics, which may be of the same material as partitions, but no stop of wood shall be less than two inches thick, by the full width of partition. Where mortar stops are used, wooden strips two inches thick may be used as supports. The spaces between the floor joists, where they rest upon the bearing partitions, shall be stopped. The stop can be of the same material as the partition, but no stop shall be less than two inches thick the full width of the floor timbers. The spaces between the stair strings and the joists

of the landings, unless unsealed, shall be stopped at three places in each story; stops can be wood not less than two inches thick. All spaces back of wainscoting and cases shall be cut off from the rest of wall or partition by stops at top and bottom not less than two inches thick the full width of wall or partition. All outside walls, back of all baseboards, shall be plastered down to the floor."

SECT. 2. This ordinance shall take effect upon its passage, and all ordinances or parts of ordinances inconsistent thereto are hereby repealed.

Passed November 27, 1908.



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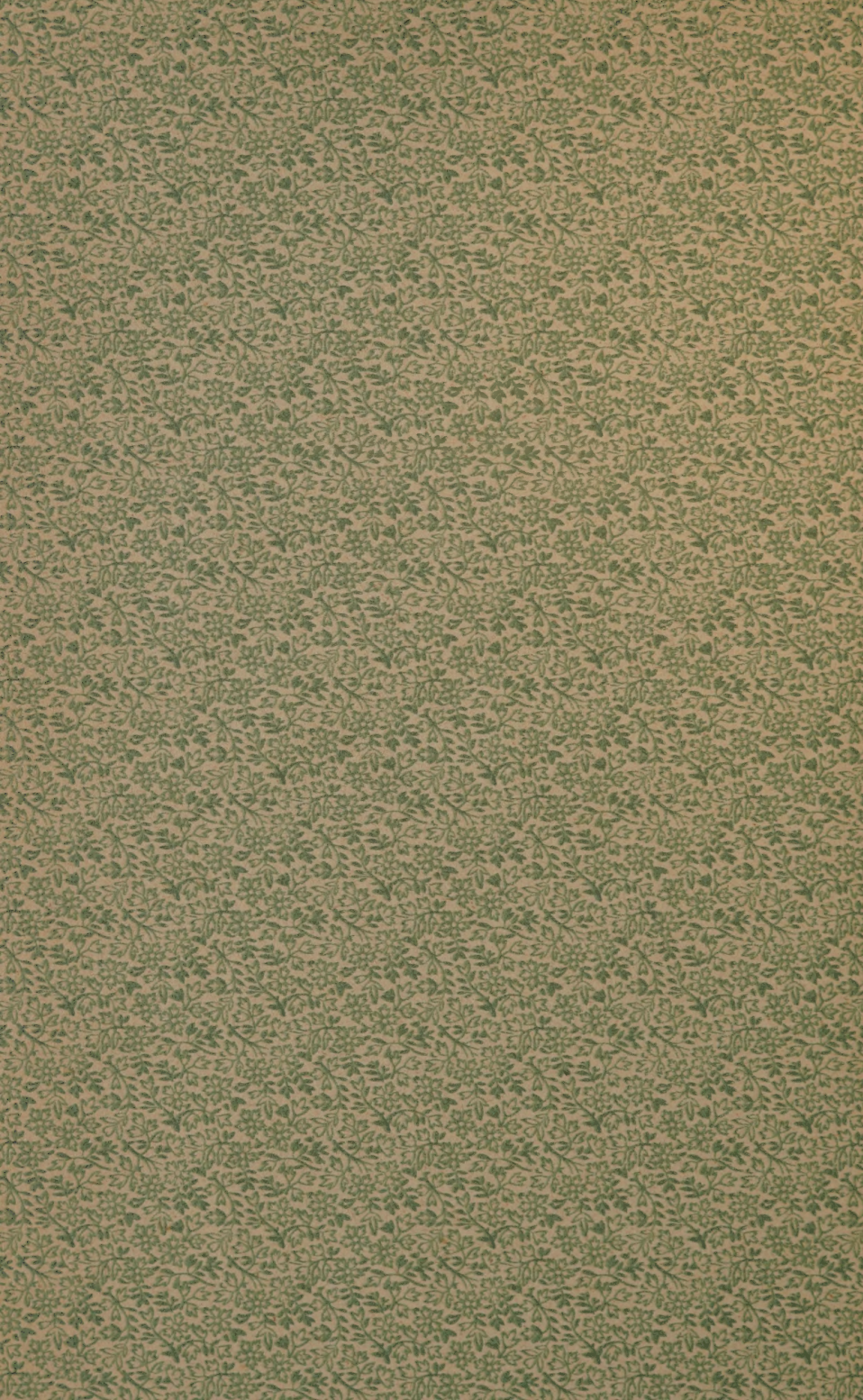




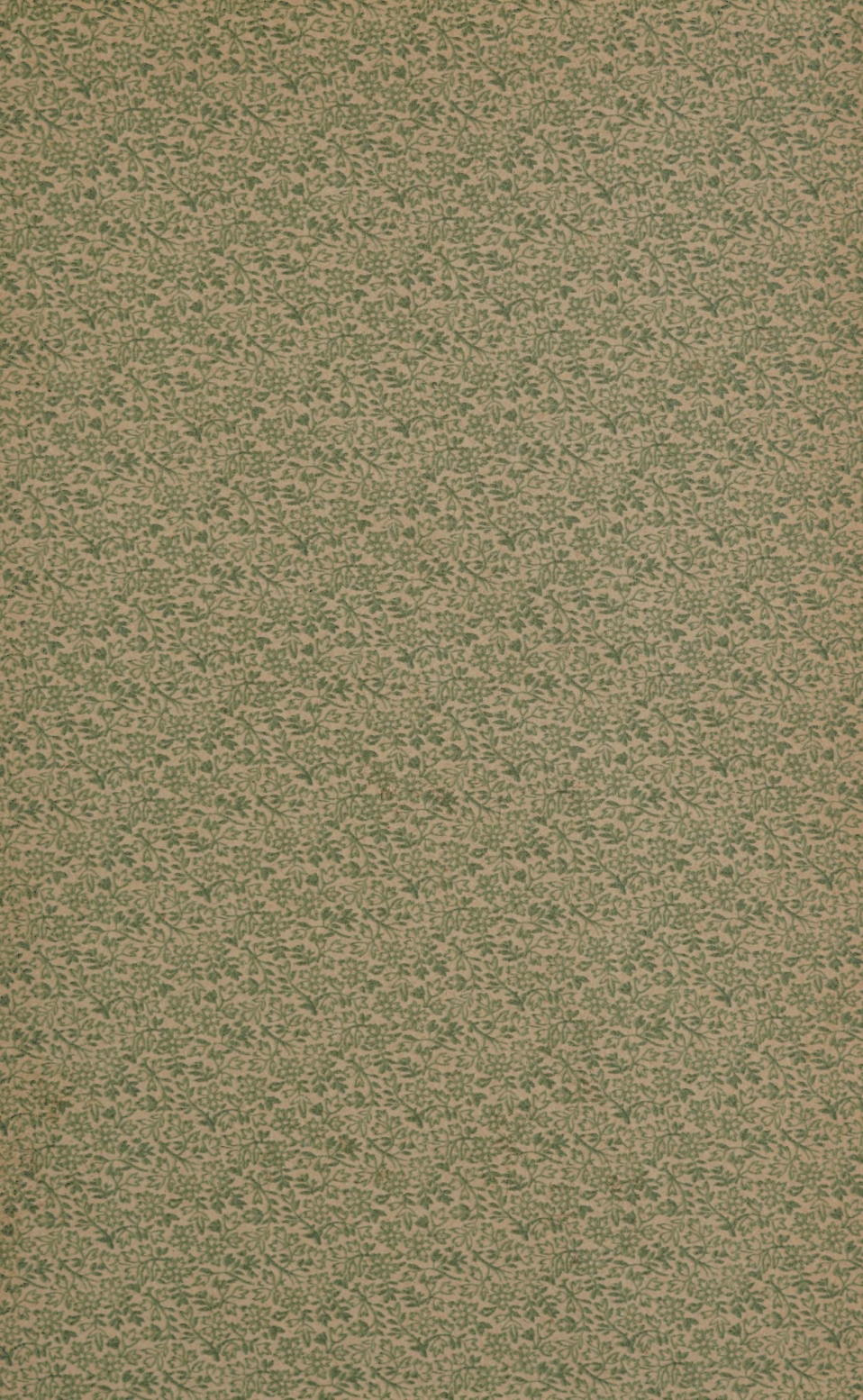














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